abcam

ab250778

Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR18104
Purification technique	Affinity purification Protein A
Concentration	1.059 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Target data

See full target information PRKCB

Function	Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase involved in various cellular processes such as regulation of the B-cell receptor (BCR) signalosome, oxidative stress-induced apoptosis, androgen receptor-dependent transcription regulation, insulin signaling and endothelial cells proliferation. Plays a key role in B-cell activation by regulating BCR-induced NF-kappa-B activation. Mediates the activation of the canonical NF-kappa-B pathway (NFKB1) by direct phosphorylation of CARD11/CARMA1 at 'Ser-559', 'Ser-644' and 'Ser-652'. Phosphorylation induces CARD11/CARMA1 association with lipid rafts and recruitment of the BCL10-MALT1 complex as well as MAP3K7/TAK1, which then activates IKK complex, resulting in nuclear translocation and activation of NFKB1. Plays a direct role in the negative feedback regulation of the BCR signaling, by down-modulating BTK function via direct phosphorylation of BTK at 'Ser-180', which results in the alteration of BTK plasma membrane localization and in turn inhibition of BTK activity (PubMed:11598012). Involved in apoptosis following oxidative damage: in case of oxidative conditions, specifically phosphorylates 'Ser-36' of isoform p66Shc of SHC1, leading to mitochondrial accumulation of p66Shc, where p66Shc acts as a reactive oxygen species producer. Acts as a coactivator of androgen receptor (AR)-dependent transcription, by being recruited to AR target genes and specifically mediating phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a specific tag for epigenetic transcriptional activation that prevents demethylation of histone H3 'Lys-4' (H3K4me) by LSD1/KDM1A (PubMed:20228790). In insulin signaling, may function downstream of IRS1 in muscle cells and mediate insulin-dependent DNA synthesis through the RAF1-MAPK/ERK signaling cascade. Participates in the regulation of glucose transport in adipocytes by negatively modulating the insulin-stimulated translocation of the glucose transporter SLC2A4/GLUT4. Phosphorylates SLC2A1/GLUT1, promoting glucose uptake by SLC2A1/GLUT1 (PubMed:25982116). Under high glucose in pancreatic beta-cells, is probably involved in the inhibition of the insulin gene transcription, via regulation of MYC expression. In endothelial cells, activation of PRKCB induces increased phosphorylation of RB1, increased VEGFA-induced cell proliferation, and inhibits PI3K/AKT-dependent nitric oxide synthase (NOS3/eNOS) regulation by insulin, which causes endothelial dysfunction. Also involved in triglyceride homeostasis (By similarity). Phosphorylates ATF2 which promotes cooperation between ATF2 and JUN, activating transcription (PubMed:19176525). Phosphorylates KLHL3 in response to angiotensin II signaling, decreasing the interaction between KLHL3 and WNK4 (PubMed:25313067). Phosphorylates and activates LRRK1, which phosphorylates RAB proteins involved in intracellular trafficking (PubMed:36040231). Isoform Beta-II. Acts as an activator of ferroptosis by mediating phosphorylation and activation of ACSL4 (PubMed:35027735). Also stimulates ferroptosis propagation by catalyzing phosphorylation of FOXK1, thereby promoting LGALS13 secretion (PubMed:40246981).

Storage

Shipped at conditions	Blue Ice

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250778 is the carrier-free version of ab184746.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Protein kinase C (PKC) isozymes alpha beta 2 and gamma are serine/threonine kinases that play a pivotal role in signal transduction processes. PKC isozymes have alternate common names such as PRKCA for PKC alpha PRKCB for PKC beta 2 and PRKCG for PKC gamma. These proteins have variable molecular masses with PKC alpha around 79 kDa PKC beta 2 approximately 80 kDa and PKC gamma also about 81 kDa. PKC alpha is expressed ubiquitously PKC beta 2 shows high expression in hematopoietic cells and PKC gamma is primarily found in the brain and spinal cord.

Biological function summary	PKC alpha beta 2 and gamma participate in cellular processes like proliferation differentiation and apoptosis. These isozymes do not typically form a part of large protein complexes but operate through direct interactions with other proteins and lipids to convey signals. They modulate cytoskeletal proteins and transcription factors altering the cell's behavior in response to extracellular cues. Their activation occurs via phospholipid-mediated signals and is calcium and diacylglycerol dependent.
Pathways	PKC alpha beta 2 and gamma are integral to the phosphoinositide signaling pathway and the MAPK/ERK pathway. By phosphorylating various proteins these isozymes influence the downstream activation of key factors within these pathways. For instance PKC alpha interrupts glycogen synthase kinase 3 beta (GSK-3β) while PKC gamma connects to synaptic plasticity processes. Their specific actions coordinate signaling cascades that orchestrate diverse cellular responses.
Associated diseases and disorders	PKC isozymes are associated with cancer and neurological disorders. PKC alpha and beta 2 display aberrant activity in several cancer types often influencing tumor growth and survival. Meanwhile PKC gamma mutations commonly relate to the development of neuropathic conditions like spinocerebellar ataxia. Furthermore PKC alpha's interaction with tumor suppressor p53 implies a role in oncogenesis. Understanding these relationships helps in targeting PKC isozymes for therapeutic interventions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

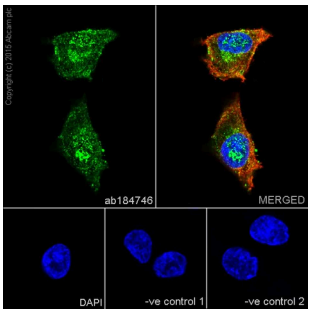
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

14 product images



Immunocytochemistry/ Immunofluorescence - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells labeling PKC gamma with ab184746 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

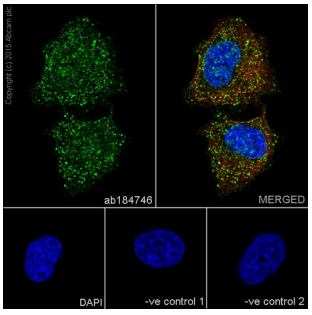
Confocal image showing cytoplasmic and nuclear staining on SH-SY5Y cell line.

The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab184746 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling PKC gamma with ab184746 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic and nuclear staining on HeLa cell line.

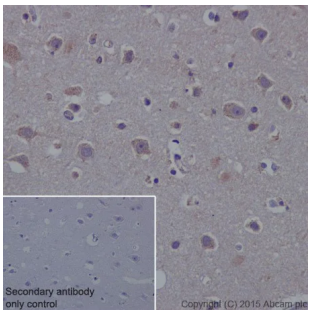
The nuclear counterstain is DAPI (blue).

Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab184746 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

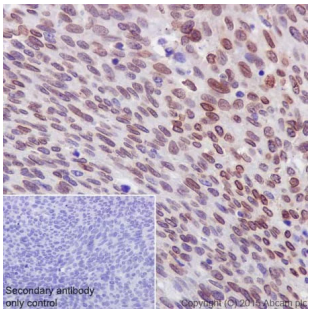
This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded human cerebral cortex tissue labeling PKC gamma with ab184746 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Weak cytoplasmic staining on neuron of Human cerebral cortex is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

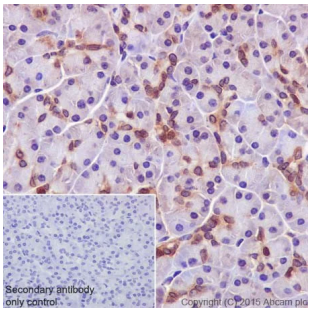
This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded cervical cancer tissue labeling PKC gamma with ab184746 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nucleus and weak cytoplasmic staining on cancer cells of cervix cancer is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

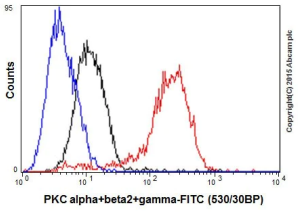
This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling PKC gamma with ab184746 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nucleus and weak cytoplasmic staining on Human pancreatic acinar cells is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

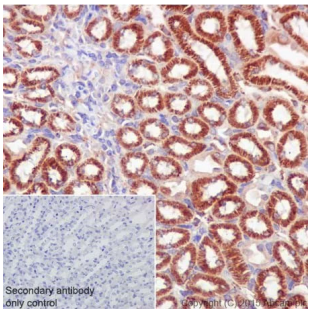
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Flow Cytometry (Intracellular) staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling PKC gamma with ab184746 at 1/60 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

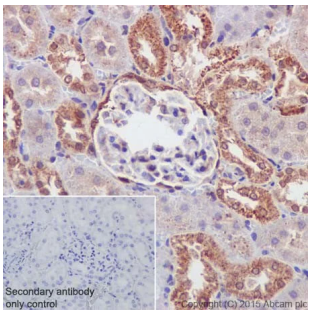
This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling PKC gamma with ab184746 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Cytoplasmic staining on epithelial cells of mouse kidney is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

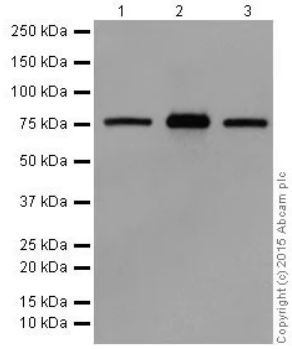
This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling PKC gamma with ab184746 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nucleus and cytoplasmic staining on epithelial cells of rat kidney is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Western blot staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] (ab184746) at 1/1000 dilution

Lane 1:
HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 10 µg

Lane 2:
Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 10 µg

Lane 3:
K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 10 µg

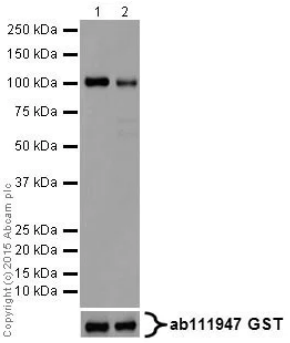
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Predicted band size: 77 kDa, 78 kDa

Observed band size: 78 kDa

Exposure time: 2s



Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Western blot staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

Active human PKC alpha full length protein (ab55672) contains aa1-672 with GST-tag; Active human PKC gamma full length protein (ab60842) contains aa1-677 with GST-tag.

All lanes:
Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] (ab184746) at 1/1000 dilution

Lane 1:
Active human PKC alpha full length protein at 0.02 µg

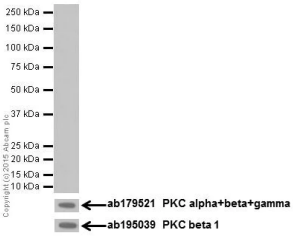
Lane 2:
Active human PKC gamma full length protein at 0.02 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 77 kDa, 78 kDa

Exposure time: 1s



Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Western blot staining of Active human PKC beta 1 full length protein using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

Active human PKC beta 1 full length protein (ab60840) contains aa1-671 with GST-tag.

All lanes:
Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] (ab184746) at 1/1000 dilution

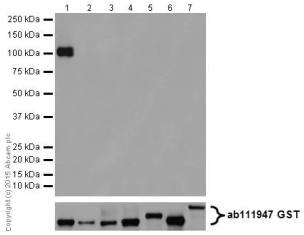
All lanes:
Active human PKC beta 1 full length protein at 0.02 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 77 kDa, 78 kDa

Exposure time: 3min



Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Western blot staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

Active human PKC beta 1 full length protein (ab60840) contains aa1-671 with GST-tag; Active human PKC beta 2 full length protein (ab60841) contains aa1-673 with GST-tag; Active human PKC delta full length protein (ab60844) contains aa1-676 with GST-tag; Active human PKC eta full length protein (ab60849) contains aa1-683 with GST-tag; Active human PKC epsilon full length protein (ab60847) contains aa1-737 with GST-tag; Active human PKC theta full length protein (ab56641) contains aa1-706 with GST-tag; Active human PKC mu full length protein (ab60873) contains aa1-912 with GST-tag.

All lanes:
Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] (ab184746) at 1/1000 dilution

Lane 1:
Active human PKC beta 2 full length protein at 0.02 µg

Lane 2:
Active human PKC beta 1 full length protein at 0.02 µg

Lane 3:
Active human PKC delta full length protein at 0.02 µg

Lane 4:
Active human PKC eta full length protein at 0.02 µg

Lane 5:
Active human PKC epsilon full length protein at 0.02 µg

Lane 6:
Active human PKC theta full length protein at 0.02 µg

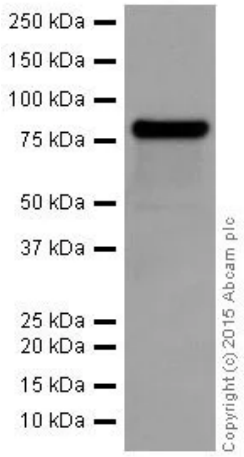
Lane 7:
Active human PKC mu full length protein at 0.02 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 77 kDa, 78 kDa

Exposure time: 3min



Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Western blot staining of Human fetal brain lysate using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] (ab184746) at 1/1000 dilution

All lanes:
Human fetal brain lysate at 10 µg

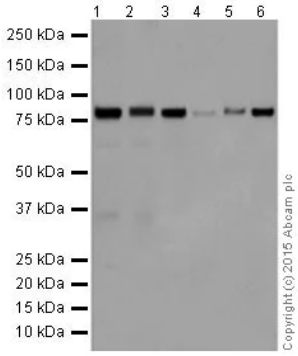
Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 77 kDa, 78 kDa

Observed band size: 78 kDa

Exposure time: 1s



Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] - BSA and Azide free (ab250778)

PKC alpha + beta 2 + gamma Western blot staining using rabbit Anti-PKC alpha + beta 2 + gamma antibody

This data was developed using ab184746, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-PKC alpha + beta 2 + gamma antibody [EPR18104] (ab184746) at 1/1000 dilution

Lane 1:
Mouse brain lysate at 10 µg

Lane 2:
Rat brain lysate at 10 µg

Lane 3:
C6 (Rat glial tumor cell line) whole cell lysate at 10 µg

Lane 4:
RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate at 10 µg

Lane 5:
PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate at 10 µg

Lane 6:

NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Predicted band size: 77 kDa, 78 kDa

Observed band size: 78 kDa

Exposure time: 1s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.