

Product datasheet

Anti-GIV (phospho Y1765) antibody [SP158] ab130424

Recombinant **RabMAb**

[1 References](#) [11 Images](#)

Overview

Product name	Anti-GIV (phospho Y1765) antibody [SP158]
Description	Rabbit monoclonal [SP158] to GIV (phospho Y1765)
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human GIV aa 1750-1850 (phospho Y1765). The exact sequence is proprietary. Database link: Q3V6T2
Positive control	IHC-P: Human colon carcinoma, colon, breast ductal carcinoma, bladder transitional cell carcinoma, bladder, skin, and Human breast carcinoma tissue; Flow Cyt: MDA-MB-231 cells.
General notes	Previously labelled as Girdin.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP158
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of ab130424 in the following tested applications.

The Abpromise guarantee

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/20.
IHC-P		1/100. Perform heat mediated antigen retrieval with EDTA buffer pH 8.0 before commencing with IHC staining protocol. Primary incubation for 10 minutes at room temperature.

Target

Function

Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself. Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation (By similarity). Essential for the integrity of the actin cytoskeleton and for cell migration. Required for formation of actin stress fibers and lamellipodia. May be involved in membrane sorting in the early endosome.

Tissue specificity

Expressed ubiquitously.

Sequence similarities

Belongs to the CCDC88 family.

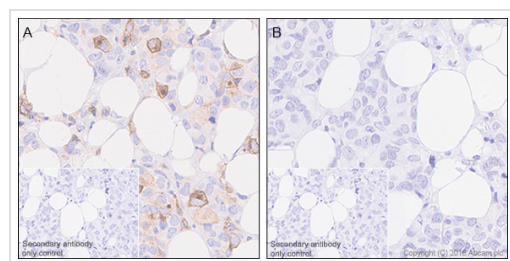
Post-translational modifications

Phosphorylation is induced by epidermal growth factor (EGF) in a phosphoinositide 3-kinase (PI3K)-dependent manner. Phosphorylation by AKT1/PKB is necessary for the delocalization from the cell membrane and for cell migration.

Cellular localization

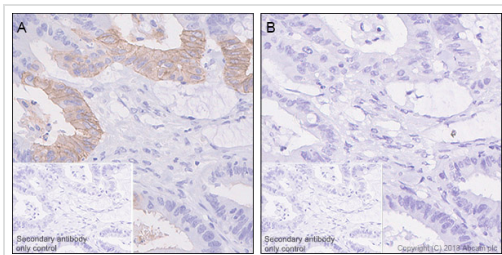
Membrane. Cell membrane. Cytoplasm > cytosol. Cytoplasmic vesicle. Cell projection > lamellipodium. Localizes to the cell membrane through interaction with phosphoinositides.

Images



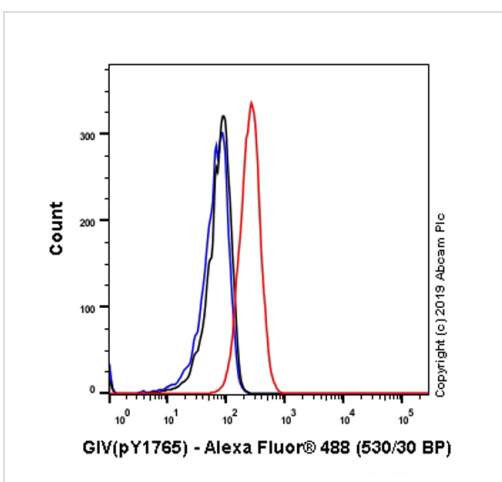
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast carcinoma tissue sections labeling GIV with ab130424 at 1/100 dilution (1.05 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



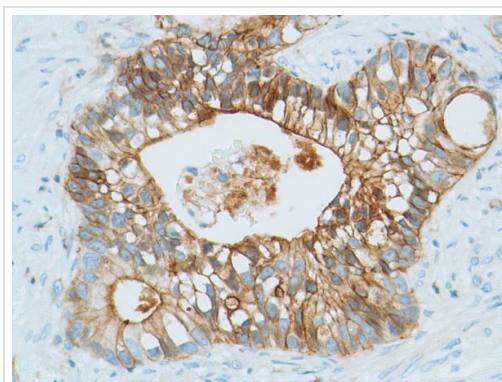
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling GIV with ab130424 at 1/100 dilution (1.05 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



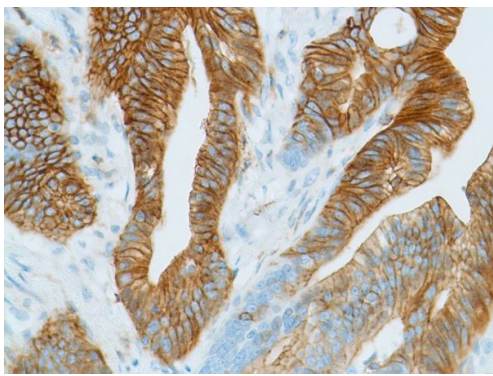
Flow Cytometry - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Flow Cytometry analysis of MDA-MB-231 (Human breast adenocarcinoma epithelial cell) cells labeling GIV with purified ab130424 at 1/20 dilution (5.5 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) / Black. Unlabeled control - Unlabelled cells / blue.



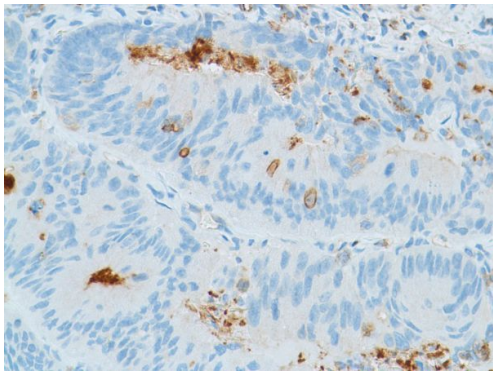
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma Stage 4 tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



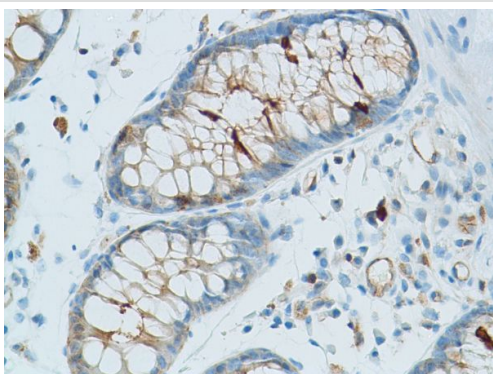
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma Stage 3 tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



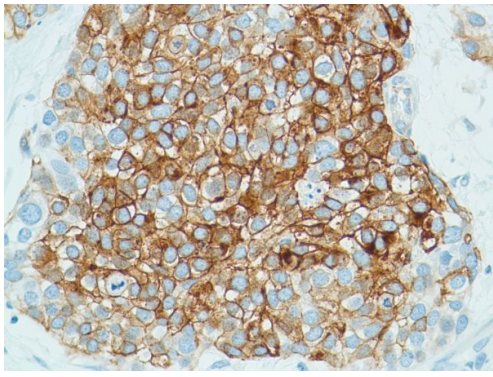
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma Stage 2 tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



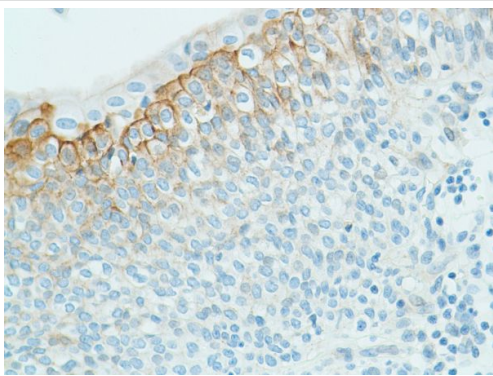
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human colon tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



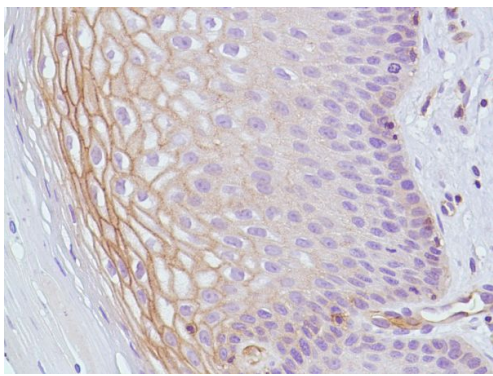
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human bladder transitional carcinoma tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



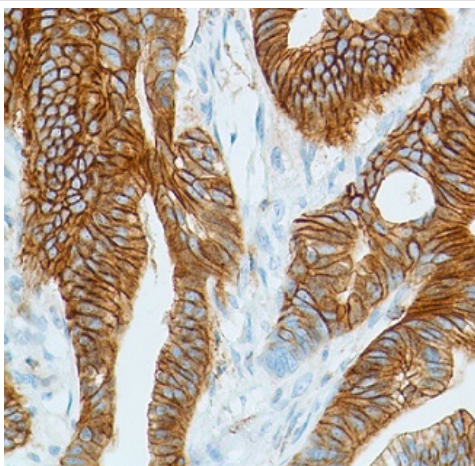
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human bladder tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

Formalin-fixed, paraffin-embedded human skin tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for GIV (phospho Y1765) using ab130424 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV (phospho Y1765) antibody [SP158] (ab130424)

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