abcam

ab324382

Anti-hCG beta (pan CGB) antibody [EPR29783-529]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR29783-529
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for WB in human tissues.
Concentration	0.512 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Transfected cell lysate - Human
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/100
Notes	-

Not recommended

Species	Transfected cell line
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line
Dilution info	1/50
Notes	-

Species	Human
Dilution info	1/50
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250
Notes	-

Not recommended

Species	Transfected cell lysate - Human, Transfected cell line
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell lysate - Human, Transfected cell line
Dilution info	-
Notes	-

Target data

See full target information CGB2

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

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.

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

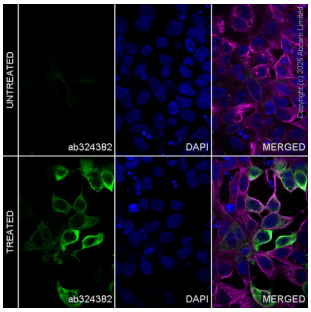
We do not recommend this combination. It is not covered by our product promise.

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.

9 product images



Immunocytochemistry/ Immunofluorescence - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

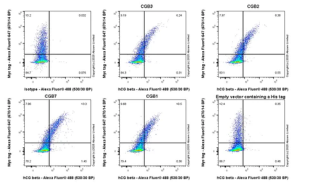
HCG beta (pan CGB) Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-hCG beta (pan CGB) antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized JAR (human placenta choriocarcinoma epithelial cell) cells labelling hCG beta (pan CGB) with ab324382 at 1/250 (2.052 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/ab150081 1000 2ug/ml dilution (Green).

Confocal image showing increased cytoplasmic staining in JAR cell line treated with Forskolin (100uM) for 72 hours (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used to counterstain tubulin at 1/ab7291 1000 1ug/ml dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/ab150081 1000 2ug/ml dilution.

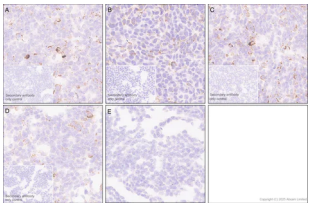


Flow Cytometry (Intracellular) - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

HCG beta (pan CGB) Flow Cytometry (Intracellular) staining using rabbit Anti-hCG beta (pan CGB) antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (upper left) / 293T cells transfected with a CGB3 expression vector containing a Myc tag (upper middle) / 293T cells transfected with a CGB2 expression vector containing a Myc tag (upper right) / 293T cells transfected with a CGB7 expression vector containing a Myc tag (down left) / 293T cells transfected with a CGB1 expression vector containing a Myc tag (down middle) / 293T (human embryonic kidney epithelial cell) cells transfected with an empty expression vector containing a Myc tag (down right) cells labelling hCG beta (pan CGB) with ab324382 at 1/50 dilution (1ug) compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

HCG beta (pan CGB) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-hCG beta (pan CGB) antibody

Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human embryonic kidney epithelial cell) transfected with a human CGB3 expression vector containing a Myc-His tag; (B) HEK-293T transfected with human CGB2 vector expression containing a Myc-His tag; (C) HEK-293T transfected with human CGB7 vector expression containing a Myc-His tag; (D) HEK-293T transfected with human CGB1 vector expression containing a Myc-His tag; (E) HEK-293T transfected with empty vector expression containing a Myc-His tag. tissue labeling hCG beta (pan

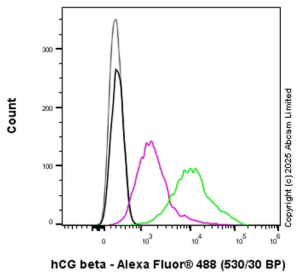
CGB) with ab324382 at 1/100 (5.13 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining in (A) HEK-293T transfected with a human CGB3 expression vector containing a Myc-His tag, (B) HEK-293T transfected with human CGB2 vector expression containing a Myc-His tag, (C) HEK-293T transfected with human CGB7 vector expression containing a Myc-His tag, (D) HEK-293T transfected with human CGB1 vector expression containing a Myc-His tag, and no signal in (E) HEK-293T transfected with empty vector expression containing a Myc-His tag.
The primary antibody was incubated for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

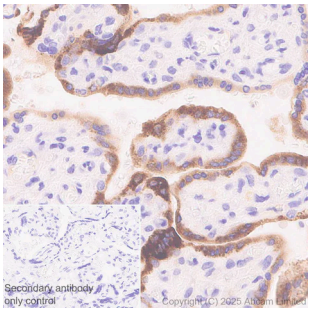


Flow Cytometry (Intracellular) - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

HCG beta (pan CGB) Flow Cytometry (Intracellular) staining using rabbit Anti-hCG beta (pan CGB) antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized JEG-3 (human placenta epithelial cell) treated with 100uM Forskolin for 24 hours (Green) / Untreated control (Magenta) cells labelling hCG beta (pan CGB) with ab324382 at 1/50 dilution (1ug) (Magenta) and Green compared with a Rabbit monoclonal IgG (ab172730) (Black) and Grey isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

HCG beta (pan CGB) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human placenta using rabbit Anti-hCG beta (pan CGB) antibody

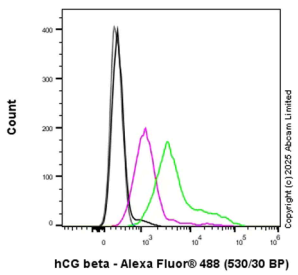
Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling hCG beta (pan CGB) with ab324382 at 1/100 (5.13 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining in human placenta.
The primary antibody was incubated for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

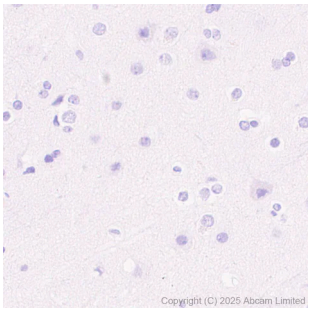


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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

HCG beta (pan CGB) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cerebrum using rabbit Anti-hCG beta (pan CGB) antibody

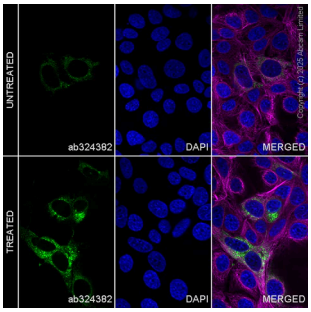
Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling hCG beta (pan CGB) with ab324382 at 1/100 (5.13 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining in human cerebrum.
The primary antibody was incubated for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunocytochemistry/ Immunofluorescence - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

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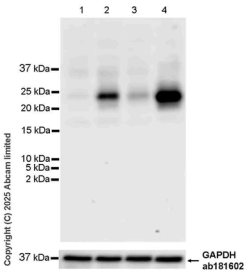
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Western blot - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382)

HCG beta (pan CGB) Western blot staining using rabbit Anti-hCG beta (pan CGB) antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The expression of hCG beta is upregulated in response to Forskolin treatment (PMID: 23598405).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-hCG beta (pan CGB) antibody [EPR29783-529] (ab324382) at 1/1000 dilution

Lane 1:
Untreated JEG-3 (human placenta epithelial cell) whole cell lysate at 40 µg

Lane 2:
JEG-3 treated with 100uM Forskolin for 24h whole cell lysate at 40 µg

Lane 3:
Untreated JAR (human placenta choriocarcinoma epithelial cell) whole cell lysate at 40 µg

Lane 4:
JAR treated with 100uM Forskolin for 72h whole cell lysate at 40 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 21 kDa, 36 kDa

Exposure time: 26s

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