

Product datasheet

Anti-Gbeta5 antibody [EPR14778] ab185206

Recombinant **RabMAb**

[2 References](#) [9 Images](#)

Overview

Product name	Anti-Gbeta5 antibody [EPR14778]
Description	Rabbit monoclonal [EPR14778] to Gbeta5
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human cerebellum, rat and mouse brain lysates; Human lung adenocarcinoma and mouse brain tissues; HACAT and U87-MG cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14778
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185206 in the following tested applications.

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

Application	Abreviews	Notes
Flow Cyt (Intra)		1/160. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 39 kDa (predicted molecular weight: 44 kDa).
ICC/IF		1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/40 - 1/60.

Target

Function

Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

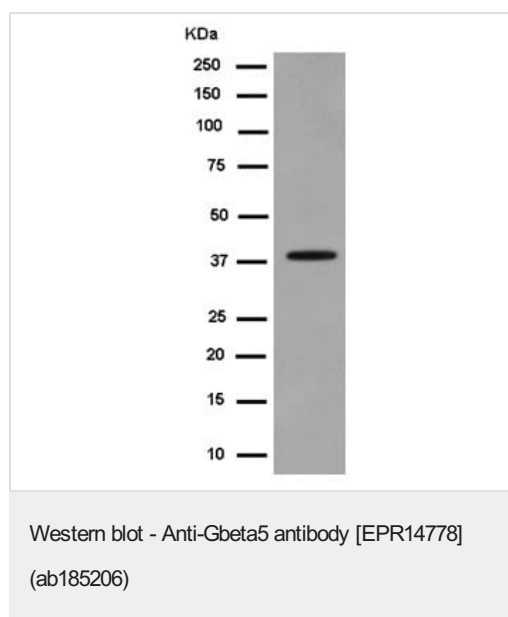
Tissue specificity

Expressed in multiple tissues.

Sequence similarities

Belongs to the WD repeat G protein beta family.
Contains 7 WD repeats.

Images

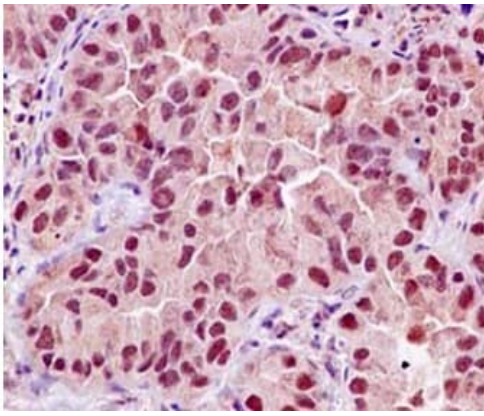


Anti-Gbeta5 antibody [EPR14778] (ab185206) at 1/2000 dilution +
Human cerebellum lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

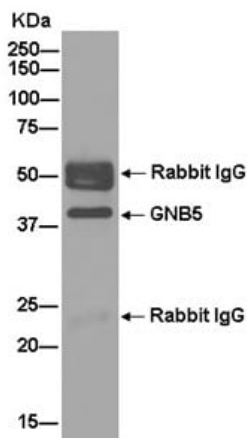
Predicted band size: 44 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gbeta5 antibody [EPR14778] (ab185206)

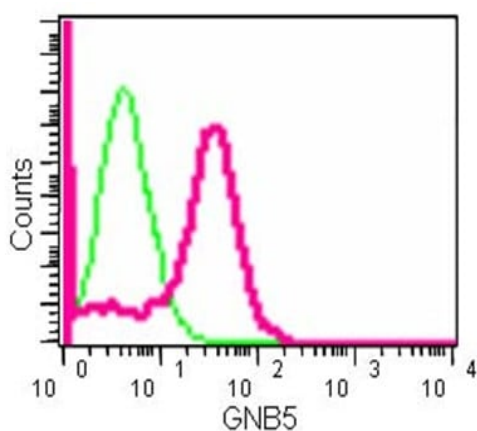
Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma tissue labeling Gbeta5 with ab185206 at 1/250 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



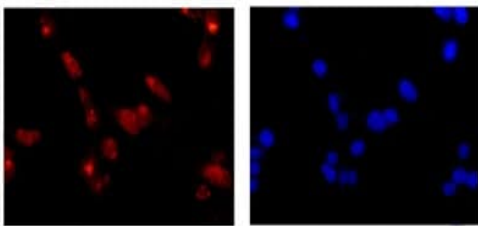
Immunoprecipitation - Anti-Gbeta5 antibody [EPR14778] (ab185206)

Western blot analysis of Gbeta5 in immunoprecipitation pellets from Rat brain lysate using ab185206 at 1/50 dilution. Secondary antibody Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000.



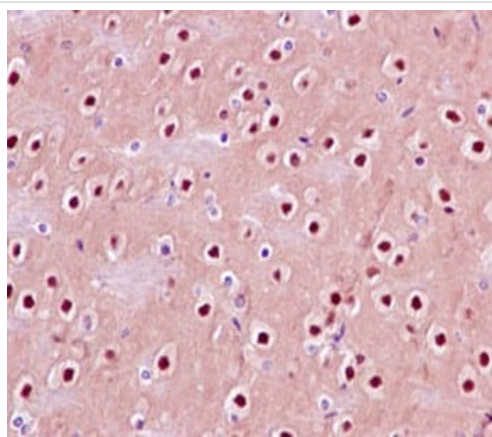
Flow Cytometry (Intracellular) - Anti-Gbeta5 antibody [EPR14778] (ab185206)

Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed HACAT cells labeling Gbeta5 with ab185206 at 1/160 dilution (red) or a rabbit IgG isotype control (green), followed by secondary Goat anti rabbit IgG (FITC) at 1/150 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Gbeta5 antibody [EPR14778] (ab185206)

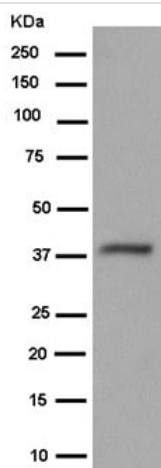
Immunofluorescent analysis of 4% paraformaldehyde-fixed U87-MG cells labeling Gbeta5 with ab185206 at 1/100 dilution. Secondary antibody: Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution. Counterstained with Dapi blue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gbeta5 antibody [EPR14778] (ab185206)

Immunohistochemical analysis of paraffin-embedded Mouse brain tissue labeling Gbeta5 with ab185206 at 1/250 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



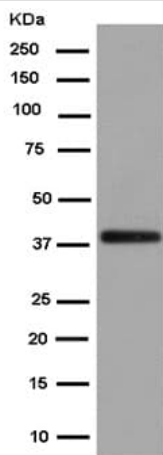
Western blot - Anti-Gbeta5 antibody [EPR14778] (ab185206)

Anti-Gbeta5 antibody [EPR14778] (ab185206) at 1/10000 dilution + Mouse brain lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 44 kDa



Western blot - Anti-Gbeta5 antibody [EPR14778]
(ab185206)

Anti-Gbeta5 antibody [EPR14778] (ab185206) at 1/10000 dilution
+ Rat brain lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 44 kDa

Why choose a recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-Gbeta5 antibody [EPR14778] (ab185206)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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