




Product datasheet

Anti-GABARAP antibody - N-terminal ab228504

6 Images

Overview

Product name	Anti-GABARAP antibody - N-terminal
Description	Rabbit polyclonal to GABARAP - N-terminal
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rabbit, Cow 
Immunogen	Synthetic peptide corresponding to Human GABARAP aa 1-100 (N terminal) (Cysteine residue). Database link: O95166 <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: HEK-293 and Odora cell lysates. ICC/IF: Human white blood cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Lyophilized: Reconstitute in 100 µl of sterile water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 4°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for additional stability. Avoid repetitive freeze/thaw cycles.
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
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab228504 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
ICC/IF		1/200 - 1/1000.
WB		1/200 - 1/1000. Predicted molecular weight: 13 kDa.

Target

Function

Ubiquitin-like modifier that plays a role in intracellular transport of GABA(A) receptors and its interaction with the cytoskeleton. Involved in apoptosis. Involved in autophagy. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.

Tissue specificity

Heart, brain, placenta, liver, skeletal muscle, kidney and pancreas.

Sequence similarities

Belongs to the ATG8 family.

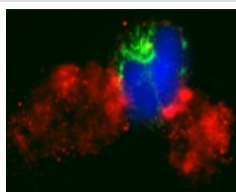
Post-translational modifications

The precursor molecule is cleaved by ATG4B to form the cytosolic form, GABARAP-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, GABARAP-II.

Cellular localization

Endomembrane system. Cytoplasm, cytoskeleton. Golgi apparatus membrane. Cytoplasmic vesicle, autophagosome. Largely associated with intracellular membrane structures including the Golgi apparatus and postsynaptic cisternae. Colocalizes with microtubules (By similarity). Localizes also to discrete punctae along the ciliary axoneme (By similarity).

Images



Immunocytochemistry/ Immunofluorescence - Anti-GABARAP antibody - N-terminal (ab228504)

Human white blood cells stained for GABARAP (red) using ab228504 at 1/200 dilution in ICC/IF.

MHC class staining is shown (green). The nuclear counterstain is Hoechst Dye (blue).

The merged image is shown.

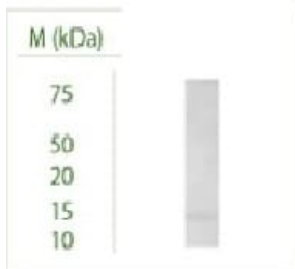


Western blot - Anti-GABARAP antibody - N-terminal (ab228504)

Anti-GABARAP antibody - N-terminal (ab228504) at 1/100 dilution
+ HEK-293 (human epithelial cell line from embryonic kidney) cell lysate

Developed using the ECL technique.

Predicted band size: 13 kDa

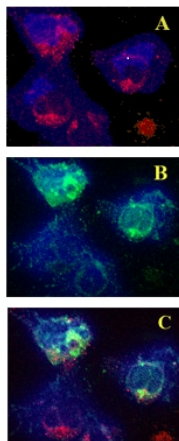


Western blot - Anti-GABARAP antibody - N-terminal (ab228504)

Anti-GABARAP antibody - N-terminal (ab228504) at 1/100 dilution
+ Odora (human olfactory cell line) cell lysate

Developed using the ECL technique.

Predicted band size: 13 kDa

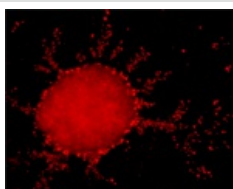


Immunocytochemistry/ Immunofluorescence - Anti-GABARAP antibody - N-terminal (ab228504)

Human white blood cells stained for GABARAP (red) using ab228504 incubated for 1 hour at room temperature at 1/200 dilution in ICC/IF.

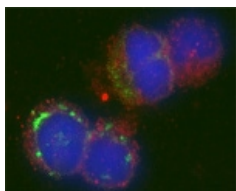
MHC class II staining is shown (green). Nuclear counterstain is Hoechst Dye (blue).

The merged image is shown in panel C.



Immunocytochemistry/ Immunofluorescence - Anti-GABARAP antibody - N-terminal (ab228504)

Human white blood cells stained for GABARAP (red) using ab228504 at 1/200 dilution in ICC/IF.



Immunocytochemistry/ Immunofluorescence - Anti-GABARAP antibody - N-terminal (ab228504)

Human white blood cells stained for GABARAP (red) using ab228504 at 1/200 dilution in ICC/IF.

MHC class staining is shown (green). The nuclear counterstain is Hoechst Dye (blue).

The merged image is shown.

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

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