

## Product datasheet

# Anti-GABARAP antibody - N-terminal ab228504

6 Images

### Overview

<b>Product name</b>	Anti-GABARAP antibody - N-terminal
<b>Description</b>	Rabbit polyclonal to GABARAP - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Mouse, Rabbit, Cow
<b>Immunogen</b>	Synthetic peptide corresponding to Human GABARAP aa 11-21 (N terminal) (Cysteine residue). Sequence: FEKRRSEGEKI-C  Database link: <a href="#">O95166</a>  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: HEK-293 and Odora cell lysates. ICC/IF: Human white blood cells.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

## Properties

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<b>Form</b>	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.
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7
<b>Purity</b>	Whole antiserum
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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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.

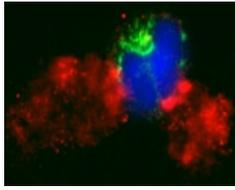
## Target

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<b>Function</b>	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.
<b>Tissue specificity</b>	Heart, brain, placenta, liver, skeletal muscle, kidney and pancreas.
<b>Sequence similarities</b>	Belongs to the ATG8 family.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	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

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

The merged image is shown.

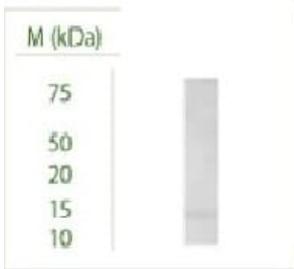


Western blot - Anti-GABARAP antibody - N-terminal (ab228504)

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

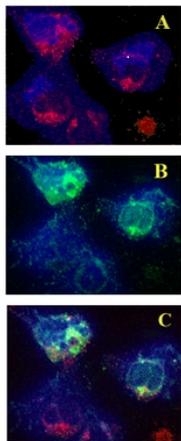


Western blot - Anti-GABARAP antibody - N-terminal (ab228504)

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

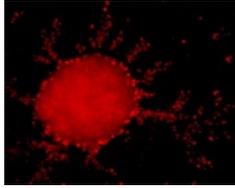


Immunocytochemistry/ Immunofluorescence - Anti-GABARAP antibody - N-terminal (ab228504)

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

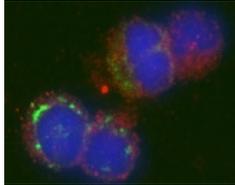
MHC class II staining is shown (green). Nuclear counterstain is Hoechst Dye (blue).

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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