# Rabbit GABARAP Polyclonal Antibody | anti-GABARAP antibody

GABARAP Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA327118** | **Rabbit** | **Human, Mouse, Rat** | **ELISA, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

GABARAP; Polyclonal Antibody; GABARAP Antibody; ATG8A; FLC 3B; FLC3B; FLJ25768; GABA(A) receptor associated protein; GABA(A) receptor-associated protein; GABARAP a; Gamma aminobutyric acid receptor associated protein; Gamma-aminobutyric acid receptor-associated protein; GBRAP_HUMAN; MGC120154; MGC120155; MM 46; MM46; anti-GABARAP antibody

## PRODUCT SPECIFICATIONS

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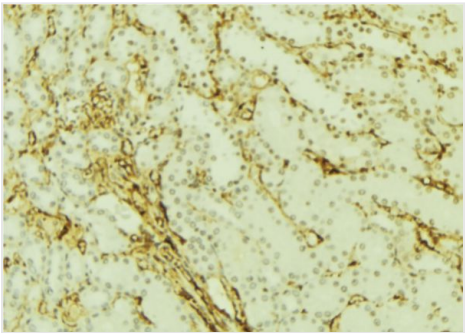
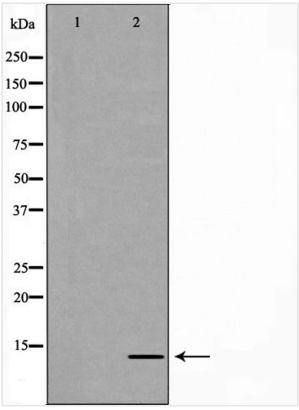
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Specificity** | GABARAP antibody detects endogenous levels of total GABARAP |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| **Form/Format** | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Sequence Length** | 117 |
| **Applicable Applications for anti-GABARAP antibody** | ELISA, IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | A synthesized peptide derived from human GABARAP |
| **Subcellular Location** | 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). |
| **Tissue Specificity** | Heart, brain, placenta, liver, skeletal muscle, kidney and pancreas. |
| **Predicted Cross Reactivity** | **Pig, Bovine, Sheep, Rabbit, Dog, Xenopus** |
| **Similarity** | Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%) |
| **Conjugation** | Unconjugated |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |

## IMAGES



**IHC (Immunohiostchemistry)**
AAA327118 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.




**WB (Western Blot)**
Western blot analysis of HEK293 cell lysate, using GABARAP Antibody. The lane on the left is treated with the antigen-specific peptide.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-GABARAP antibody** | Description: Gamma-aminobutyric acid A receptors.<br>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.<br>Subunit Structure: Interacts with GPHN and NSF (By similarity). Interacts with ATG3, ATG7, ATG13 (PubMed:11096062, PubMed:11825910, PubMed:12507496, PubMed:23043107). Interacts with alpha-and beta-tubulin (PubMed:9892355, PubMed:11729197). Interacts with GABRG2 (PubMed:9892355, PubMed:11729197). Interacts with RB1CC1 (PubMed:23043107). Interacts with ULK1 (PubMed:11146101, PubMed:23043107). Interacts with CALR (PubMed:19154346). Interacts with DDX47 (PubMed:15977068). Interacts with TP53INP1 and TP53INP2 (PubMed:19056683, PubMed:22421968, PubMed:22470510). Interacts with TBC1D5 and TBC1D25 (PubMed:21383079, PubMed:22354992). Directly interacts with SQSTM1 (PubMed:17580304, PubMed:24668264). Interacts with MAPK15 (PubMed:22948227). Interacts with TECPR2 (PubMed:20562859). Interacts with PCM1 (PubMed:24089205). Interacts with TRIM5 and TRIM21 (PubMed:25127057, PubMed:26347139). Interacts with MEFV (PubMed:26347139). Interacts with KIF21B (By similarity). Interacts with WDFY3; this interaction is required for WDFY3 recruitment to MAP1LC3B-positive p62/SQSTM1 bodies (PubMed:24668264).<br>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.<br>Similarity: Belongs to the ATG8 family. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 6005764 |
| **NCBI GeneID** | 11337 |
| **NCBI Accession #** | NP_009209.1 |
| **NCBI GenBank Nucleotide #** | NM_007278.1 |
| **UniProt Accession #** | O95166 |
| **Molecular Weight** | Observed: 13 kDa<br>Predicted: 14 kDa |
| **NCBI Official Full Name** | gamma-aminobutyric acid receptor-associated protein |
| **NCBI Official Synonym Full Names** | GABA type A receptor-associated protein |
| **NCBI Official Symbol** | GABARAP |
| **NCBI Official Synonym Symbols** | MM46; ATG8A; GABARAP-a |

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| **NCBI Protein Information** | gamma-aminobutyric acid receptor-associated protein |
| **UniProt Protein Name** | Gamma-aminobutyric acid receptor-associated protein |
| **UniProt Gene Name** | **GABARAP** |
| **UniProt Synonym Gene Names** | FLC3B |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/gabarap-antibody-immunohistochemistry-western-blot-elisa/327118