

Rabbit GABARAP Polyclonal Antibody | anti-GABARAP antibody

GABARAP Antibody (N-term)

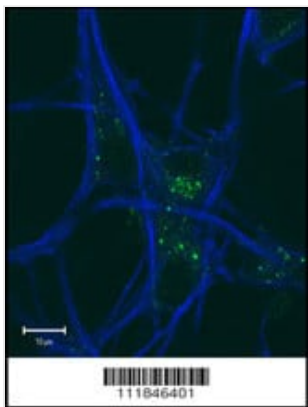
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285156	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)	Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

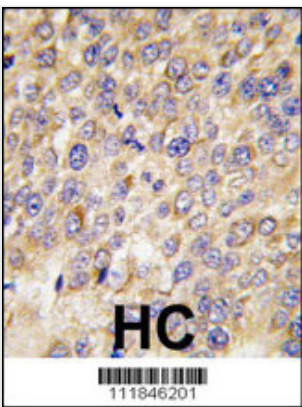
GABARAP; Polyclonal Antibody; GABARAP Antibody (N-term); Gamma-aminobutyric acid receptor-associated protein; GABA(A) receptor-associated protein; MM46; FLC3B; anti-GABARAP antibody

PRODUCT SPECIFICATIONS

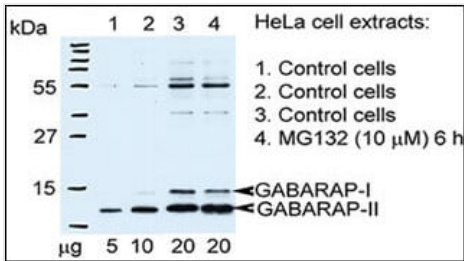
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GABARAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GABARAP.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	1-30
Sequence Length	117
Applicable Applications for anti-GABARAP antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



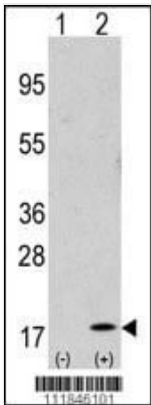
IF (Immunofluorescence)
GABARAP antibody was tested in mouse MEFs and mouse motor neurons. Cells were fixed in 3% PFA and permeabilized with 100% methanol. Antibodies used were AAA Biotech anti-GABARAP (1:500, labeled with anti-rabbit 488 Alexa) and Covance anti-Tuj1 (1:1000, labeled with anti-mouse 647).



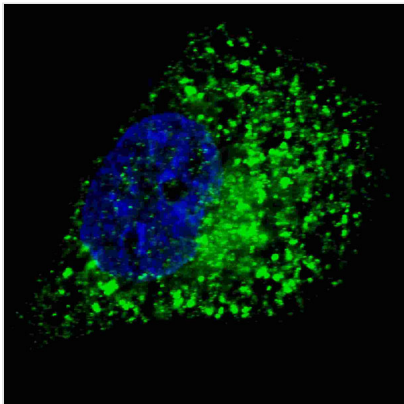
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with Autophagy GABARAP Antibody (N-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Rabbit anti-GABARAP AAA Biotech AAA285156 1:1000 dilution in 5% skimmed milk powder. Secondary antibody goat anti-rabbit-HRP ECL detection 30 sec on X-ray film.



WB (Western Blot)
Western blot analysis of GABARAP (arrow) using purified Pab. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the GABARAP gene (Lane 2) (Origene Technologies).



IF (Immunofluorescence)
Fluorescent image of U251 cells stained with GABARAP (N-term) antibody. U251 cells were treated with Chloroquine (50 uM,16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA285156 GABARAP (N-term) primary antibody (1:500, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). GABARAP immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-GABARAP antibody	Gamma-aminobutyric acid A receptors [GABA(A) receptors] are ligand-gated chloride channels that mediate inhibitory neurotransmission. GABARAP is GABA(A) receptor-associated protein, which is highly positively charged in its N-terminus and shares sequence similarity with light chain-3 of microtubule-associated proteins 1A and 1B. This protein clusters neurotransmitter receptors by mediating interaction with the cytoskeleton.
Product Categories/Family for anti-GABARAP antibody	Cell Biology; Neuroscience; Phospho Antibodies
References	References for protein: 1.Nemos, C., et al., Brain Res. Mol. Brain Res. 119(2):216-219 (2003). 2.Stangler, T., et al., J. Biol. Chem. 277(16):13363-13366 (2002). 3.Knight, D., et al., J. Biol. Chem. 277(7):5556-5561 (2002). 4.Tanida, I., et al., J. Biol. Chem. 277(16):13739-13744 (2002). 5.Harris, R., et al., J. Biomol. NMR 21(2):185-186 (2001). References for U251 cell line: 1. Westermarck B.; Pontén J.; Hugosson R. (1973)." Determinants for the establishment of permanent tissue culture lines from human gliomas". Acta Pathol Microbiol Scand A. 81:791-805. [PMID: 4359449]. 2. Pontén, J.,Westermarck B. (1978)." Properties of Human Malignant Glioma Cells in Vitro". Medical Biology 56: 184-193.[PMID: 359950]. 3. Geng Y.;Kohli L.; Klocke B.J.; Roth K.A.(2010). "Chloroquine-induced autophagic vacuole accumulation and cell death in glioma cells is p53 independent". Neuro Oncol. 12(5): 473-481.[PMID: 20406898].

NCBI AND UNIPROT INFORMATION

NCBI GI #	6005764
NCBI GeneID	11337
NCBI Accession #	NP_009209.1
NCBI GenBank Nucleotide #	NM_007278.1
UniProt Accession #	O95166
Molecular Weight	13918
NCBI Official Full Name	gamma-aminobutyric acid receptor-associated protein
NCBI Official Synonym Full Names	GABA(A) receptor-associated protein
NCBI Official Symbol	GABARAP
NCBI Official Synonym Symbols	MM46; ATG8A; GABARAP-a
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
UniProt Entry Name	GBRAP_HUMAN

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.