

**Product Name: GABARAP (11T4) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe11243**

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## Summary

<b>Production Name</b>	GABARAP (11T4) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	GABARAP
<b>Alternative Names</b>	GABARAP; GABARAPL1; GABARAPL2;
<b>Gene ID</b>	11337.0
<b>SwissProt ID</b>	O95166 .

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000
<b>Molecular Weight</b>	14kDa

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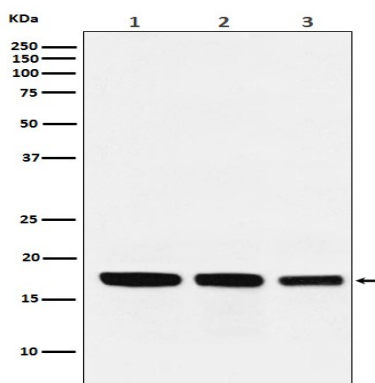


## Background

GABARAP is cleaved at its carboxyl terminus, which leads to conjugation by either of the phospholipids phosphatidylethanolamine or phosphatidylserine. This processing converts GABARAP from a type I to a type II membrane bound form involved in autophagosome biogenesis. Processing of GABARAP involves cleavage by Atg4 family members followed by conjugation by the E1 and E2 like enzymes Atg7 and Atg3. Ubiquitin-like modifier that plays a role in intracellular transport of GABA(A) receptors and its interaction with the cytoskeleton (PubMed:[9892355](http://www.uniprot.org/citations/9892355)). Involved in autophagy: while LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (PubMed:[15169837](http://www.uniprot.org/citations/15169837), PubMed:[20562859](http://www.uniprot.org/citations/20562859), PubMed:[22948227](http://www.uniprot.org/citations/22948227)). Through its interaction with the reticulophagy receptor TEX264, participates in the remodeling of subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover (PubMed:[31006538](http://www.uniprot.org/citations/31006538)). Also required for the local activation of the CUL3(KBTBD6/7) E3 ubiquitin ligase complex, regulating ubiquitination and degradation of TIAM1, a guanyl-nucleotide exchange factor (GEF) that activates RAC1 and downstream signal transduction (PubMed:[25684205](http://www.uniprot.org/citations/25684205)). Thereby, regulates different biological processes including the organization of the cytoskeleton, cell migration and proliferation (PubMed:[25684205](http://www.uniprot.org/citations/25684205)). Involved in apoptosis (PubMed:[15977068](http://www.uniprot.org/citations/15977068)).

## Research Area

## Image Data



Western blot analysis of GABARAP expression in (1) HepG2 cell lysate; (2) Mouse kidney lysate; (3) Rat heart lysate.

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**Note**

For research use only.