

## Product datasheet

# Anti-GABARAP antibody ab1398

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### Overview

<b>Product name</b>	Anti-GABARAP antibody
<b>Description</b>	Rabbit polyclonal to GABARAP
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody recognizes human GABARAP (14 kD).
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide: RSEGEKIRKKYPDRV , corresponding to amino acids 15-31 of Human GABARAP. <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	PBS with 0.02% sodium azide
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab1398** 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
ELISA		

Application	Abreviews	Notes
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WB



#### Application notes

Western Blot: use at 1:500-1:1,000 dilution.  
ELISA: use at 1:1,000-1:5,000 dilution

#### 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.

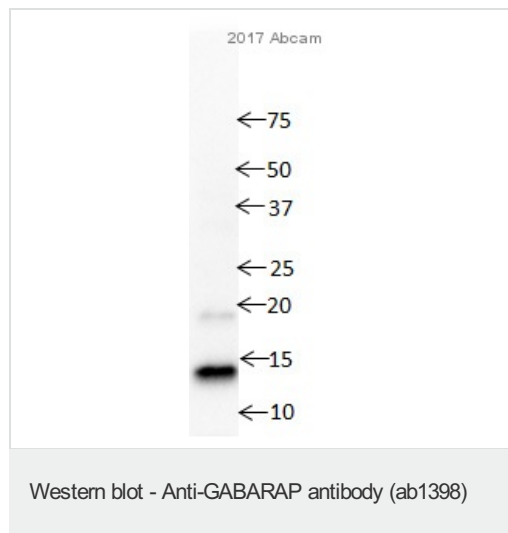
#### Post-translational modifications

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



Anti-GABARAP antibody (ab1398) at 1 µg/ml  
+ Macrophage whole cell lysate at 80 µg

#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at  
1/5000 dilution

Developed using the ECL technique.

**Observed band size:** 14 kDa

**Exposure time:** 30 seconds

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