

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects human, mouse, and rat GULP1/CED-6 in direct ELISAs and Western blots.                                                                                                                                                                                               |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human GULP1/CED-6<br>Met1-Asn92<br>Accession # Q9UBP9                                                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

GULP1 (also PTB domain-containing engulfment adaptor protein 1 and Cell death protein 6 homolog/CED6) is a 36-40 kDa, cytosolic member of the ced-6 family of proteins. It is expressed by multiple cell types, including macrophages, neurons and sinusoidal endothelial cells, and is believed to play a key role in phagocytosis, particularly involving apoptotic cells. Failure to remove apoptotic cells is suggested to contribute to chronic inflammatory conditions. GULP1 is involved with a MEGF10:GULF:stabilin-1:stabilin-2 internalization pathway. Possibly following endosome formation, it binds to transmembrane activated stabilins and/or LRP1 as a homodimer, and serves as an intermediate for signal transduction. GULP1 also binds to APP, facilitating its proteolysis and the generation of Aβ. Human GULP1 is 304 amino acids (aa) in length. It contains one PTB domain (aa 17-154) that interacts with transmembrane receptors, a Leu-zipper (aa 163-193) that mediates dimerization, and a Pro-rich region (aa 238-271) that is likely involved with signal transduction. There are three splice variants. One shows a deletion of aa 31-133, a second contains a 34 aa substitution for aa 134-304, and a third contains a 10 aa substitution for aa 282-304. Over aa 1-92, human GULP1 shares 99% aa sequence identity with mouse GULP1.

#### PRODUCT SPECIFIC NOTICES

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