

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Shrew-1/AJAP1 in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant human AJAP1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Shrew-1/AJAP1 His157-His283 Accession # A2AL15
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

AJAP-1 (Adherens Junction Associated Protein 1; also Shrew-1 and Gm573) is a 44-47 kDa transmembrane protein found on the basolateral surface of epithelium. It is presumably expressed by multiple types of epithelium, and participates in cell-cell adhesion. Zonula adherens are structures that participate in the generation of cell contact adherens junctions. Such junctions, or complexes, are key to the maintenance of epithelial cell polarity and the maintenance of cell-to-cell contact. Central to this complex is E-cadherin, a transmembrane molecule that makes crucial contacts with cytoskeletal actin via catenins. AJAP-1 is an accompanying transmembrane molecule that interacts with E-cadherin and appears to promote the internalization of E-cadherin upon growth factor stimulation. This facilitates the dissolution of adherens junctions with an increase in cell motility. Notably, AJAP-1 is also known to complex with CD147 in nonpolar, invasive cells, suggesting that AJAP-1 may play a more complex role in cell migration. Mouse AJAP-1 is a 412 amino acid (aa) type III (no signal sequence) transmembrane protein. It contains a 284 aa extracellular region (aa 1-284) plus a 106 aa cytoplasmic domain (aa 306-412). Over aa 1-283, mouse AJAP-1 shares 95% and 75% aa sequence identity with rat and human AJAP-1, respectively; over aa 158-283, mouse AJAP-1 sequence identity changes little, showing 95% and 78% equality with rat and human AJAP-1, respectively.

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