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AJAP1 Antibody

Catalog # ASC11919

Product Information

Application	WB, E
Primary Accession	Q9UKB5
Other Accession	NP_061324, 9055278
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	44536
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	AJAP1 antibody can be used for detection of AJAP1 by Western blot at 1 - 2 □g/ml.

Additional Information

Gene ID	55966
Other Names	Adherens junction-associated protein 1, Membrane protein shrew-1, AJAP1, MOT8, SHREW1
Target/Specificity	AJAP1; AJAP1 antibody is human, mouse and rat reactive.
Reconstitution & Storage	AJAP1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	AJAP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AJAP1
Synonyms	MOT8, SHREW1
Function	Plays a role in cell adhesion and cell migration.
Cellular Location	Basolateral cell membrane; Single-pass type I membrane protein. Apical cell membrane; Single-pass type I membrane protein. Cell junction, adherens junction. Note=Mainly basolateral (PubMed:16707570). Localization is mediated by AP1M2 (PubMed:16707570).
Tissue Location	Expressed in uterus and pancreas (at protein level).

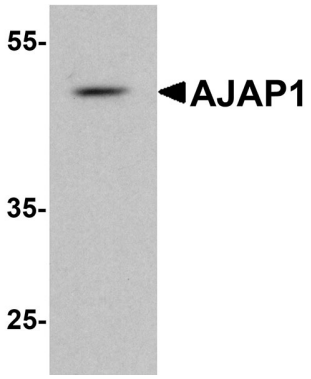
Background

The Adherens Junction Associated Protein 1 (AJAP1) plays a key role in cell adhesion and cell migration (1). It is a transmembrane protein found on the basolateral surface of epithelium and expressed by multiple types of epithelium (1,2). AJAP1 interacts with E-Cadherin and appears to promote the internalization of E-Cadherin upon growth factor stimulation (3). This facilitates the dissolution of adherens junctions with an increase in cell motility (3,4).

References

Zeng L, Fee BE, Rivas MV, et al. Adherens junctional associated protein-1: a novel 1p36 tumor suppressor candidate in gliomas (Review). Int. J. Oncol. 2014; 45:13-7.
Han L, Zhang KL, Zhang JX, et al. AJAP1 is dysregulated at an early stage of gliomagenesis and suppresses invasion through cytoskeleton reorganization. CNS Neurosci. Ther. 2014; 20:429-37.
Gross JC, Schreiner A, Engels K, et al. E-cadherin surface levels in epithelial growth factor-stimulated cells depend on adherens junction protein shrew-1. Mol. Biol. Cell 2009; 20:3598-607.
Lin N, Di C, Bortoff K, et al. Deletion or epigenetic silencing of AJAP1 on 1p36 in glioblastoma. Mol. Cancer Res. 2012; 10:208-17.

Images



Western blot analysis of AJAP1 in rat liver tissue lysate with AJAP1 antibody at 1 µg/ml.