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SHROOM1 Antibody

Catalog # ASC11580

Product Information

Application	WB, E
Primary Accession	Q2M3G4
Other Accession	NP_001166171, 289577098
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	90786
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SHROOM1 antibody can be used for detection of SHROOM1 by Western blot at 1 - 2 □g/mL.

Additional Information

Gene ID	134549
Other Names	Protein Shroom1, Apical protein 2, SHROOM1, APXL2, KIAA1960
Target/Specificity	SHROOM1; SHROOM1 antibody is human, mouse and rat reactive. At least three isoforms of SHROOM1 are known to exist; this antibody will detect only the two largest isoforms. SHROOM1 antibody is predicted to not cross-react with other SHROOM family members.
Reconstitution & Storage	SHROOM1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SHROOM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SHROOM1
Synonyms	APXL2, KIAA1960
Function	May be involved in the assembly of microtubule arrays during cell elongation.
Cellular Location	Cytoplasm, cytoskeleton.

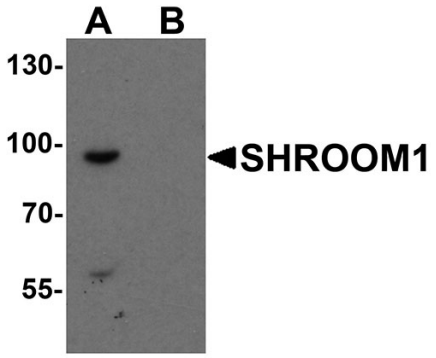
Background

SHROOM1 Antibody: SHROOM family members play diverse roles in the development of the nervous system and other tissues. SHROOM1 is a PDZ domain-containing actin-binding protein that is required for neural tube morphogenesis. It facilitates neurulation by regulating the morphology of neurepithelial cells via the apical positioning of an actomyosin network in the neurepithelium. SHROOM1 is also expressed in pulmonary arterial smooth muscle cells and its expression is significantly decreased in mouse and human models of pulmonary arterial hypertension, suggesting that there may be a link between SHROOM1 expression and pulmonary arterial hypertension.

References

Lee C, Le MP, and Wallingford JB. The shroom family proteins play broad roles in the morphogenesis of thickened epithelial sheets. Dev. Dyn. 2009; 238:1480-91.
Hildebrand JD and Soriano P. Shroom, a PDZ domain-containing actin-binding protein, is required for neural tube morphogenesis in mice. Cell 1999; 99:486-97
Hildebrand JD. Shroom regulates epithelial cell shape via the apical positioning of an actomyosin network. J. Cell Sci. 2005; 118:5191-203.
Sevilla-Perez J, Konigshoff M, Kwapiszewska G, et al. Shroom expression is attenuated in pulmonary arterial hypertension. Eur. Respir. J. 2008; 32:871-880.

Images



Western blot analysis of SHROOM1 in mouse heart tissue lysate with SHROOM1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.