

Strumpellin Antibody

Catalog # ASC11379

Product Information

Application	WB, E
Primary Accession	Q12768
Other Accession	NP_055661 , 120952851
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	134286
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Strumpellin antibody can be used for detection of Strumpellin by Western blot at 1 µg/mL.

Additional Information

Gene ID	9897
Other Names	WASH complex subunit strumpellin, Strumpellin, KIAA0196
Target/Specificity	KIAA0196; Multiple isoforms of Strumpellin are known to exist.
Reconstitution & Storage	Strumpellin antibody can be stored at 4°C for three months and -20°C, 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	Strumpellin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WASHC5 (HGNC:28984)
Synonyms	KIAA0196
Function	Acts as a component of the WASH core complex that functions as a nucleation-promoting factor (NPF) at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role in the fission of tubules that serve as transport intermediates during endosome sorting (PubMed: 19922875 , PubMed: 20498093). May be involved in axonal outgrowth. Involved in cellular localization of ADRB2 (PubMed: 23085491). Involved in cellular trafficking of BLOC-1 complex cargos such as ATP7A and VAMP7 (PubMed: 23676666).

Cellular Location	Cytoplasm, cytosol. Endoplasmic reticulum. Early endosome Note=Colocalizes with SYP/synaptophysin in the external molecular layer of the dentate gyrus and in motoneurons of the ventral horn of spinal cord.
Tissue Location	Expressed ubiquitously.

Background

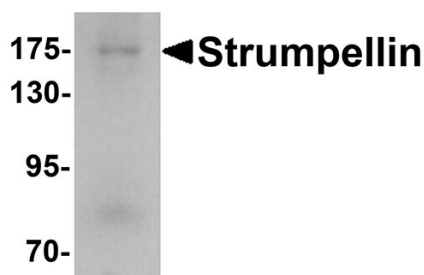
Strumpellin Antibody: Strumpellin is a ubiquitously expressed, multi-transmembrane and spectrin-repeat-containing protein. It is named for Strumpell disease; a progressive upper-motor neurodegenerative disease termed hereditary spastic paraplegia (HSP). The Strumpellin gene maps to the eighth HSP locus (SPG8) on chromosome 8p24.13. Three families linked to this locus have mutations in the Strumpellin gene; rescue studies of zebrafish with decreased Strumpellin expression with Strumpellin mRNA containing these mutations showed impaired normal function of this protein. Recent studies suggest that Strumpellin may also be involved in protein aggregation diseases.

References

Valmanis PN, Meijer IA, Reynolds A, et al. Mutations in the KIAA0196 gene at the SPG8 locus cause hereditary spastic paraplegia. *Am. J. Hum. Gen.* 2007; 80:152-61.

Clemen CS, Tangavelou K, Strucksberg KH, et al. Strumpellin is a novel valosin-containing protein binding partner linking hereditary spastic paraplegia to protein aggregation diseases. *Brain* 2010; 133:2920-41

Images



Western blot analysis of Strumpellin in human ovary tissue lysate with Strumpellin antibody at 1 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.