

SLAIN2 Antibody

Catalog # ASC11010

Product Information

Application	E, IHC-P
Primary Accession	Q9P270
Other Accession	AAH40993 , 26454712
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	62543
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SLAIN2 antibody can be used for detection of SLAIN2 by immunohistochemistry at 5 µg/mL.

Additional Information

Gene ID	57606
Other Names	SLAIN motif-containing protein 2, SLAIN2, KIAA1458
Target/Specificity	SLAIN2; SLAIN2 antibody is predicted not to cross-react with SLAIN1.
Reconstitution & Storage	SLAIN2 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	SLAIN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLAIN2
Synonyms	KIAA1458
Function	Binds to the plus end of microtubules and regulates microtubule dynamics and microtubule organization. Promotes cytoplasmic microtubule nucleation and elongation. Required for normal structure of the microtubule cytoskeleton during interphase.
Cellular Location	Cytoplasm, cytoskeleton. Note=Colocalizes with microtubules. Detected at the plus end of growing microtubules
Tissue Location	Widely expressed with highest levels in adult liver, testis and ovary, and

lowest levels in adult pancreas and spleen and in fetal brain.

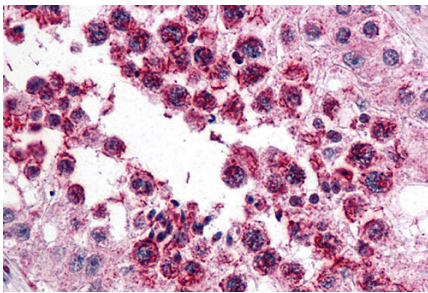
Background

SLAIN2 Antibody: SLAIN2 is closely related to SLAIN1, a novel stem cell protein that is expressed at the stem cell and epiblast stages. Unlike SLAIN1, SLAIN2 is widely expressed and is thought to play a role in regulating microtubule (MT) growth and organization. SLAIN2 binds to end-binding proteins (EBs), cytoplasmic linker proteins (CLIPs) such as CLIP170, CLIP-associated proteins, and interacts with the MT polymerase ch-TOG. Depletion of SLAIN2 using RNAi led to disorganization of the radial MT array, indicating its importance in the regulation of MT growth and organization.

References

Hirst CE, Ng ES, Azzola L, et al. Transcriptional profiling of mouse and human ES cells identifies SLAIN1, a novel stem cell gene. *Dev. Biol.* 2006; 293:90-103.
van der Vaart B, Manatschal C, Grigoriev I, et al. SLAIN2 links microtubule plus end-tracking proteins and controls microtubule growth in interphase. *J. Cell Biol.* 2011; 193:1083-99.

Images



Immunohistochemistry of SLAIN2 in human testis with SLAIN2 antibody at 5 µg/mL.

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