

SLAIN2 Antibody
Catalog # ASC11010**Specification**

SLAIN2 Antibody - Product Information

Application	IHC
Primary Accession	Q9P270
Other Accession	AAH40993 , 26454712
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	64 kDa KDa
Application Notes	SLAIN2 antibody can be used for detection of SLAIN2 by immunohistochemistry at 5 µg/mL.

SLAIN2 Antibody - Additional Information

Gene ID **57606**
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.

SLAIN2 Antibody - 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

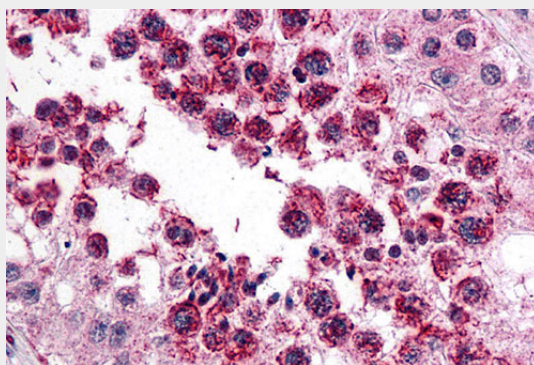
pancreas and spleen and in fetal brain.

SLAIN2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLAIN2 Antibody - Images



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

SLAIN2 Antibody - 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.

SLAIN2 Antibody - 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.