

STAU1 Antibody
Catalog # ASC11213**Specification**

STAU1 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	O95793
Other Accession	NP_059347 , 82659087
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	STAU1 antibody can be used for detection of STAU1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.

STAU1 Antibody - Additional Information

Gene ID	6780
Target/Specificity	
STAU1;	

Reconstitution & Storage

STAU1 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

STAU1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

STAU1 Antibody - Protein Information

Name STAU1

Synonyms STAU

Function

Binds double-stranded RNA (regardless of the sequence) and tubulin. May play a role in specific positioning of mRNAs at given sites in the cell by cross-linking cytoskeletal and RNA components, and in stimulating their translation at the site.

Cellular Location

Cytoplasm. Rough endoplasmic reticulum. Note=Localizes exclusively with the rough reticulum endoplasmic (RER)

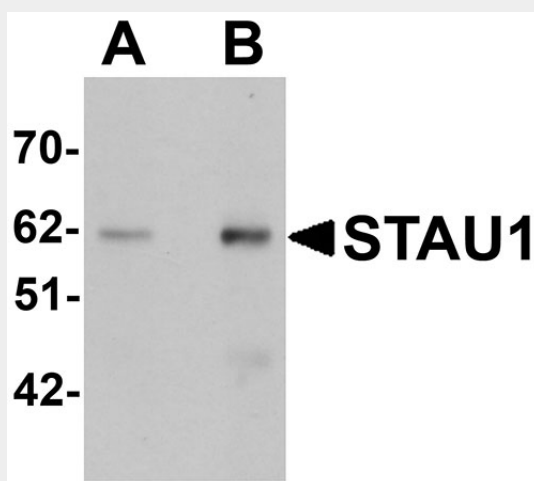
Tissue Location

Widely expressed. Expressed in brain, pancreas, heart, skeletal muscles, liver, lung, kidney and placenta

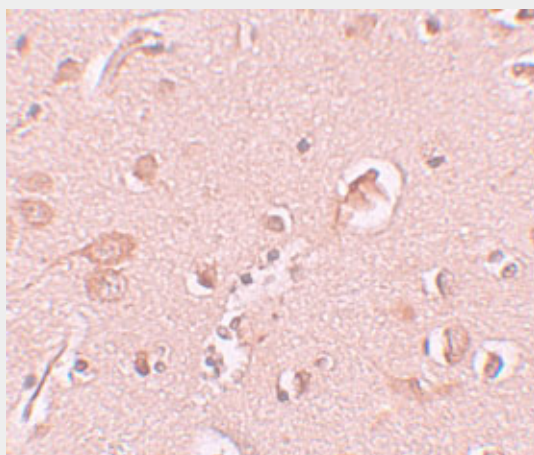
STAU1 Antibody - Protocols

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

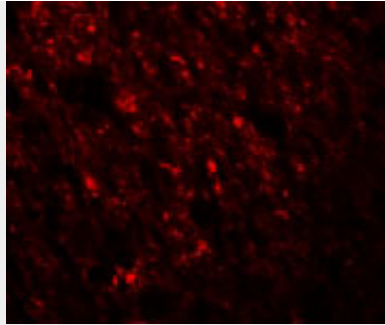
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

STAU1 Antibody - Images

Western blot analysis of STAU1 in rat brain tissue lysate with STAU1 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of STAU1 in human brain tissue with STAU1 antibody at 10 $\mu\text{g/mL}$.



Immunofluorescence of STAUI in Human Brain cells with STAUI antibody at 20 µg/mL.

STAUI Antibody - Background

STAUI Antibody: STAUI is a member of a family of double-stranded RNA (dsRNA)-binding proteins involved in the transport and/or localization of mRNAs to different subcellular compartments and/or organelles. These proteins are characterized by the presence of multiple dsRNA-binding domains which are required to bind RNAs having double-stranded secondary structures. The human STAUI also contains a microtubule-binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. STAUI has been shown to be present in the cytoplasm in association with the rough endoplasmic reticulum (RER), implicating this protein in the transport of mRNA via the microtubule network to the RER. STAUI is also known to interact with influenza ribonucleoproteins NS1, NP, and PA and is required for efficient viral replication.

STAUI Antibody - References

Marion RM, Fortes P, Peloso A, et al. A human sequence homologue of Staufen is an RNA-binding protein that is associated with polysomes and localizes to the rough endoplasmic reticulum. *Mol. Cell. Biol.*1999; 19:2212-9.
de Lucas S, Peredo J, Marion RM, et al. Human Staufen1 protein interacts with influenza virus nucleoproteins and is required for efficient virus multiplication. *J. Virol.*2010; 84:7603-12.