

## STAU1 Polyclonal antibody

Catalog Number: 14225-1-AP

Featured Product

16 Publications

## Basic Information

## Catalog Number:

14225-1-AP

## Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG5464

## GenBank Accession Number:

BC050432

## GeneID (NCBI):

6780

## Full Name:

staufen, RNA binding protein, homolog 1 (Drosophila)

## Calculated MW:

63 kDa

## Observed MW:

55 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

## Applications

## Tested Applications:

IF, IP, WB, ELISA

## Cited Applications:

IF, IHC, RIP, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse

## Positive Controls:

WB: human brain tissue, K-562 cells, mouse brain tissue

IP: mouse brain tissue,

IF: HeLa cells,

## Background Information

Staufen1 (STAU1)-mediated mRNA decay (SMD) degrades translationally active mRNAs that bind the double-stranded (ds)RNA binding protein STAU1 within their 3'-untranslated regions (3'UTRs) [PMID:21307942]. STAU1 can binds to stem structures and protect Dvl2 mRNA from degradation by associating with the secondary structure in the U1 region which is located at 5' position of second U stretch in the U2 region [PMID:17510634]. It has 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. There are two isoforms of STAU1 protein and the molecular weight of two isoforms are respectively 63 kDa and 55 kDa

## Notable Publications

Author	Pubmed ID	Journal	Application
Evan P Booy	30247708	Nucleic Acids Res	WB
Shuyuan Shen	32322670	Mol Ther Oncolytics	RIP
Yoichiro Sugimoto	25799984	Nature	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

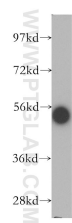
For technical support and original validation data for this product please contact:

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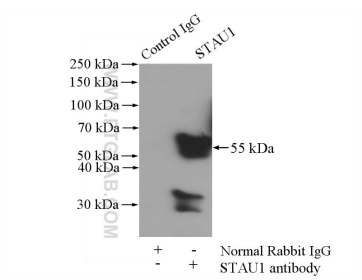
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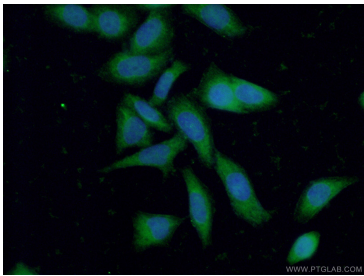
Selected Validation Data



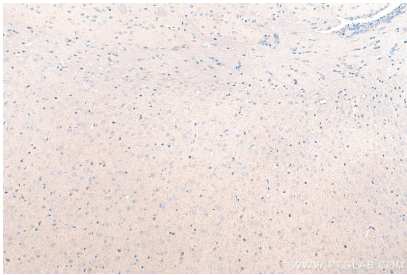
human brain tissue were subjected to SDS PAGE followed by western blot with 14225-1-AP (STAU1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



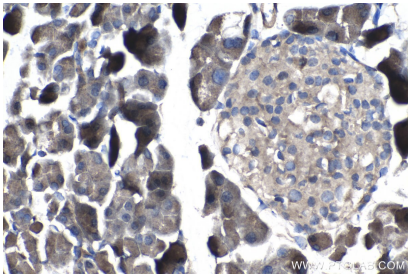
IP Result of anti-STAU1 (IP:14225-1-AP, 4ug; Detection:14225-1-AP 1:500) with mouse brain tissue lysate 3440ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 14225-1-AP (STAU1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14225-1-AP (STAU1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 14225-1-AP (STAU1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).