

Datasheet for ABIN2778907

anti-STAU1/Staufen antibody (N-Term)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	STAU1/Staufen (STAU1)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Horse, Cow, Guinea Pig, Dog, Rabbit, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAU1/Staufen antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human STAU1
Sequence:	LSVGGQQFNG KGKTRQAAKH DAAAKALRIL QNEPLPERLE VNGRESEEEEN
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 93%, Pig: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against STAU1. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	STAU1/Staufen (STAU1)
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Target Details

Alternative Name: STAU1 ([STAU1 Products](#))

Background: STAU1 (Staufen) is a member of the 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 homologue of staufen encoded by STAU, in addition contains a microtubule-binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. Staufen is a member of the 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 homologue of staufen encoded by STAU, in addition contains a microtubule-binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. The STAU gene product 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, the site of translation. Five transcript variants resulting from alternative splicing of STAU gene and encoding three isoforms have been described. Three of these variants encode the same isoform, however, differ in their 5'UTR.

Alias Symbols: STAU

Protein Interaction Partner: LONRF1, GLRX3, ZMAT3, NXT1, SPRTN, MATR3, EIF4A3, NUP155, PRDX6, NPEPPS, DDX23, DDX21, AIFM1, INA, ATP6V0D1, SART1, RPL14, AP3D1, CPNE3, IQGAP1, PABPC4, EIF3D, EIF3B, EIF3A, PRKRA, KHSRP, IRS4, SLC25A11, SMC1A, PABPN1, DDX39B, TUBA1A, MOGS, YWHAZ, XPO1, V

Protein Size: 577

Molecular Weight: 63 kDa

Gene ID: 6780

NCBI Accession: [NM_017453](#), [NP_059347](#)

UniProt: [O95793](#)

Pathways: [Asymmetric Protein Localization](#)

Application Details

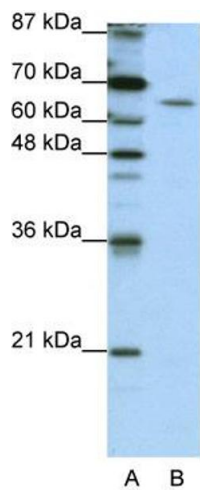
Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 577 AA

Application Details

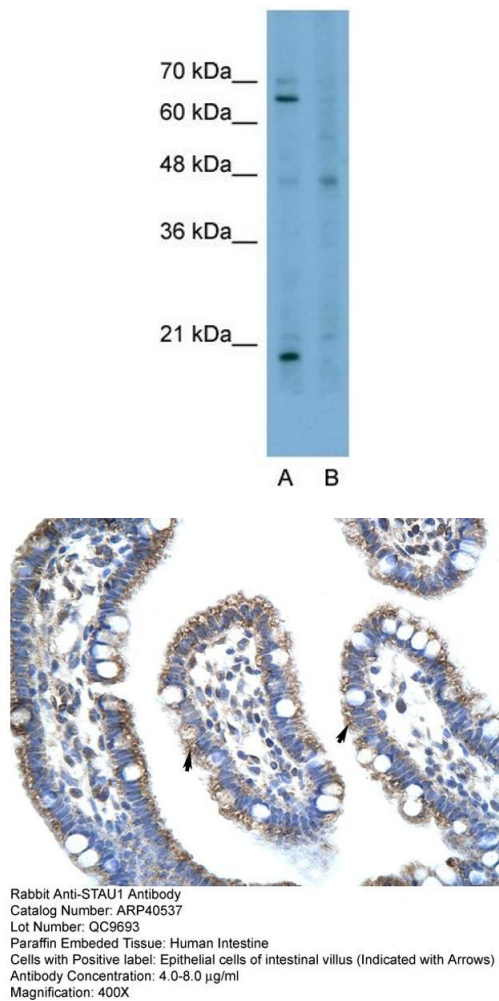
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-STAU1 Antibody Titration:
1.25ug/ml ELISA Titer: 1:62500 Positive Control: HepG2 cell lysate



Western Blotting

Image 2. Host: Rabbit Target Name: STAU1 Sample Type: HepG2 Lane A: Primary Antibody Lane B: Primary Antibody + Blocking Peptide Primary Antibody Concentration: 2.5ug/mL Peptide Concentration: 2.0ug/mL Lysate Quantity: 25ug/lane Gel Concentration: 12% STAU1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells

Immunohistochemistry

Image 3. Rabbit Anti-STAU1 Antibody Paraffin Embedded Tissue: Human Intestine Cellular Data: Epithelial cells of intestinal villas Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X