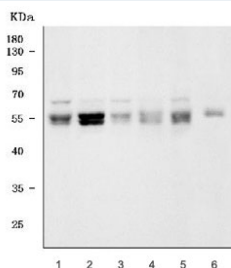


STAU1 Antibody / Staufen (R31848)

Catalog No.	Formulation	Size
R31848	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	O95793
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml
Limitations	This STAU1 antibody is available for research use only.



Western blot testing of 1) human K562, 2) human HepG2, 3) human Caco-2, 4) human SiHa, 5) human U-2 OS and 6) rat PC-12 cell lysate with STAU1 antibody. Predicted molecular weight: ~55 kDa (short form) and 63 kDa (long form).

Description

Double-stranded RNA-binding protein Staufen homolog 1 is a protein that in humans is encoded by the STAU1 gene. 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.

Application Notes

Optimal dilution of the STAU1 antibody should be determined by the researcher.

Immunogen

Amino acids HGIGKDVESCHDMAALNILKLLSELDQQSTEMPRTGN of human Staufen were used as the immunogen for the STAU1 antibody.

Storage

After reconstitution, the STAU1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.