

Anti-Staufen Picoband Antibody

Catalog # ABO12581

Product Information

Application	WB
Primary Accession	O95793
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Double-stranded RNA-binding protein Staufen homolog 1(STAU1) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6780
Other Names	Double-stranded RNA-binding protein Staufen homolog 1, STAU1, STAU
Calculated MW	63182
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm . Rough endoplasmic reticulum . Localizes exclusively with the rough reticulum endoplasmic (RER).
Tissue Specificity	Widely expressed. Expressed in brain, pancreas, heart, skeletal muscles, liver, lung, kidney and placenta.
Source	Eukaryota
Protein Name	Double-stranded RNA-binding protein Staufen homolog 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Staufen (532-568aa HGIGKDVESCHDMAALNILKLLSELDQQSTEMPRTGN), identical to the related mouse sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated

freezing and thawing.

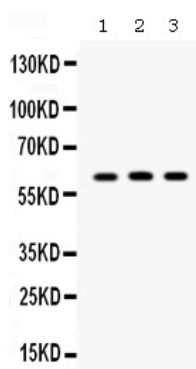
Protein Information

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 endoplasmic reticulum (RER)
Tissue Location	Widely expressed. Expressed in brain, pancreas, heart, skeletal muscles, liver, lung, kidney and placenta

Background

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.

Images



Western blot analysis of Staufen expression in PANC whole cell lysates (lane 1), A549 whole cell lysates (lane 2) and 293T whole cell lysates (lane 3). Staufen at 63KD was detected using rabbit anti- Staufen Antigen Affinity purified polyclonal antibody (Catalog # ABO12581) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.