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Anti-Staufen Picoband Antibody

Catalog # ABO12581

Specification

Anti-Staufen Picoband Antibody - 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.

Anti-Staufen Picoband Antibody - Additional Information

Gene ID 6780

Other Names
Double-stranded RNA-binding protein Staufen homolog 1, STAU1, STAU

Calculated MW
63182 MW KDa

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.

Protein Name
Double-stranded RNA-binding protein Staufen homolog 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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 r˚Constitution, 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.**

Anti-Staufen Picoband 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 endoplasmic reticulum (RER)

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

Anti-Staufen Picoband 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 Cytomety
- Cell Culture

Anti-Staufen Picoband Antibody - Images

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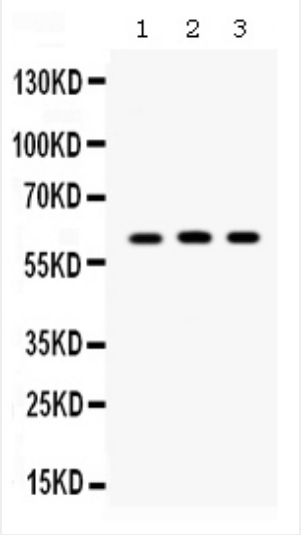

Western blot analysis of Staufen expression in PANC whole cell lysates (lane 1), A549 whole cell lysates (lane 2) and 293T whole cell lysates (lane 3). Staufen at 63KD was detected using rabbit anti- Staufen Antigen Affinity purified polyclonal antibody (Catalog # ABO12581) at0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-Staufen Picoband Antibody - 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.