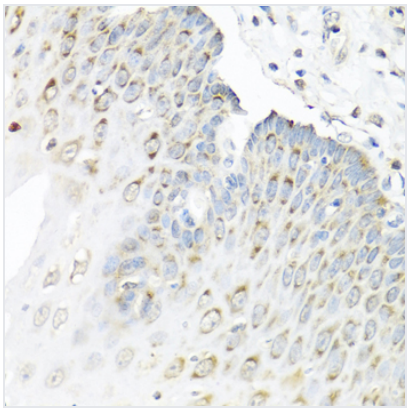
# STAU1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | STAU1, Polyclonal Antibody |
| **Full Product Name** | STAU1 Polyclonal Antibody |
| **Product Gene Name** | anti-STAU1 antibody |
| **Product Synonym Names** | STAU; PPP1R150 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Purity/Purification** | Antigen Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 63kDa |
| **OMIM** | AF061939 mRNA |
| **Immunogen** | Recombinant protein of human STAU1 |
| **Buffer** | PBS with 0.02% sodium azide, 50% glycerol, pH7.3 |
| **Santa Cruz Alternative** | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-86883 / sc-134042 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-STAU1 antibody** | Immunohistochemistry (IHC) |
| **Application Notes for anti-STAU1 antibody** | IHC: 1:50 - 1:100 |
| **Related Product Information for anti-STAU1 antibody** | MBS2541412 is an antibody targeting STAU1. Also known as STAU1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-STAU1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |



**Immunohistochemistry (IHC) of anti-STAU1 antibody**
Immunohistochemistry of paraffin-embedded human esophagus using STAU1 antibody at dilution of1:100 (40x lens).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAU1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33875035 |
| **NCBI GeneID** | 6780 |
| **UniProt Secondary Accession #** | Q5JW29; Q6GTM4; Q9H5B4; Q9H5B5; Q9Y3Q2; A8K9Z4; E1P5Y1; E1P608 |
| **UniProt Related Accession #** | O95793 |
| **NCBI Official Full Name** | STAU1 protein, partial |
| **NCBI Official Synonym Full Names** | staufen double-stranded RNA binding protein 1 |
| **NCBI Official Symbol** | STAU1 |
| **NCBI Official Synonym Symbols** | STAU; PPP1R150 |
| **UniProt Protein Name** | Double-stranded RNA-binding protein Staufen homolog 1 |
| **Protein Family** | Double-stranded RNA-binding protein |
| **UniProt Gene Name** | STAU1 |
| **UniProt Synonym Gene Names** | STAU |
| **UniProt Entry Name** | STAU1_HUMAN |
| **NCBI Protein Information** | double-stranded RNA-binding protein Staufen homolog 1 |
| **NCBI Summary for 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. 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. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for STAU1** | STAU: 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. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: RNA-binding<br><br>Chromosomal Location of Human Ortholog: 20q13.1<br><br>Cellular Component: cytoplasm; dendrite; endoplasmic reticulum; membrane; microtubule associated complex; plasma membrane; stress granule<br><br>Molecular Function: protein binding<br><br>Biological Process: positive regulation of viral genome replication; positive regulation of viral protein levels in host cell |
| **Research Articles on STAU1** | **1.** together, these data highlight the broad impact of Stau1 as a splicing regulator and suggest that Stau1 may act as a disease modifier in DM1. |
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