



# Recombinant Rat Double-stranded RNA-binding protein Stau2 homolog 2 (Stau2)

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| <b>Product Code</b>      | CSB-EP721243RA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Abbreviation</b>      | Stau2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Uniprot No.</b>       | Q68SB1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequence</b>          | MANPKEKTPM CLVNELARFH SIQPQYKLLN ESGPAHSMKF SVQLSLGEQT<br>WESEGSSIKK AQQAVANKAL TESTLPKPVQ KPPKSNVNNN PGSITPTVEL<br>NGLAMKRGEF AIYRPLDPKP FPNYRANYNF RGMYNQRYHC PMPKIFYVQL<br>TVGNNEFFGE GKTRQAARHN AAMKALQALQ NEPIPEKSPQ NGESGKEMDD<br>DKDANKSEIS LVFEIALKRN MPVSFEVIKE SGPPHMKSFV TRVSVGEFSA<br>EGEGNSKKLS KKRAATTVLQ ELKKLPPLPV IEKPKLFFKK RPKTIKAGP<br>EYGQGMNPIS RLAQIQQARK EKEPDYVLLS ERGMPPRRREF VMQVKVGNEV<br>ATGTGPNKKI AKKNAAEAML LQLGYKASTS LQDQLDKTGE NKGWSGPKPG<br>FPEPANNTPK GILHLSPDVY QEMEASRHRV TSGTTLGYLS PKDMNQPSST<br>FFSVESPSPT SSAPAARELL MNGTSPAAEA IGLKGSSPTP PCSSVQPSKQ<br>LEYLARIQGF QAALSALKQF SEQGLESIDG VVNVENGSLK QKAKHLREKA<br>DNNQANPGSI TQDCKKSKSV I |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Target Names</b>      | Stau2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Names</b>     | Recommended name: Double-stranded RNA-binding protein Stau2 homolog 2<br>Short name= r-staufen protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Expression Region</b> | 1-571                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Length</b>    | full length protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Target Details</b>    | Staufen homolog 2 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. Staufen homolog 2 shares 48.5% and 59.9% similarity with drosophila and human                                                                                                                                                                                                                             |



stauen, respectively. The exact function of Stauen homolog 2 is not known, but since it contains 3 copies of conserved dsRNA binding domain, it could be involved in double-stranded RNA binding events. Several transcript variants encoding different isoforms have been found for this gene.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.