**BACKGROUND**

STAU2 (staufen, RNA-binding protein, homolog 2), also known as 39K2 or 39K3, is one of two vertebrate homologs of the *Drosophila* staufen, an RNA-binding protein that mediates mRNA transport during *Drosophila* oogenesis and neurogenesis. Expressed predominantly in brain tissue and throughout neuronal development, STAU2 belongs to the double-stranded RNA-binding protein family and is believed to shuttle between the nucleus and the cytoplasm, facilitating the microtubule-dependent delivery of neuronal RNA to dendrites of polarized neurons. In addition, STAU2 can be found in ribonucleoprotein particles (RNPs) that move along microtubules into dendrites. Interference of STAU2 expression in mature neurons leads to a significant reduction in dendritic spines. This suggests that STAU2 is essential for the proper formation and maintenance of dendritic spines. Due to alternative splicing events, STAU2 exists as five different isoforms.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: STAU2 (human) mapping to 8q21.11; Stau2 (mouse) mapping to 1A3.

**SOURCE**

STAU2 (S-35) is a mouse monoclonal antibody raised against recombinant STAU2 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG1 kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**APPLICATIONS**

STAU2 (S-35) is recommended for detection of STAU2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and selective phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for STAU2 siRNA (h): sc-77731, STAU2 siRNA (m): sc-153882, STAU2 shRNA Plasmid (h): sc-77731-SH, STAU2 shRNA Plasmid (m): sc-153882-SH, STAU2 shRNA (h) Lentiviral Particles: sc-77731-V and STAU2 shRNA (m) Lentiviral Particles: sc-153882-V.

Molecular Weight of STAU2: 63 kDa.

Positive Controls: STAU2 (h2): 293T Lysate: sc-172655 or IMR-32 cell lysate: sc-2409.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG1 BP-HRP: sc-516102 or m-IgG1 BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.