bs-9877R **[Primary Antibody]**

Staufen Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6780 **SWISS:** O95793

Target: Staufen

Immunogen: KLH conjugated synthetic peptide derived from human Staufen/STAU1: 421-520/577.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: STAU1 (staufen, RNA binding protein, homolog 1) is a 577 amino acid protein that contains three double-stranded RNA-binding domains and is a mammalian homolog of Staufen, a Drosophila protein that is involved in mRNA transport during oogenesis and zygotic development. Localized to the rough endoplasmic reticulum (RER) and expressed in a variety of tissues, including heart, brain, liver, lung, pancreas, kidney and placenta, STAU1 binds to both Tubulin and double-stranded RNA and is thought to play an important role in mRNA transport from the microtubule network to the RER. Additionally, STAU1 may be involved in cross-linking cytoskeletal components with RNA, an event that is important for proper mRNA positioning during translation. Alternative splicing of the STAU1 gene yields two STAU1 isoforms, designated short and long.

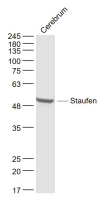
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:50-200)

Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken, Horse)

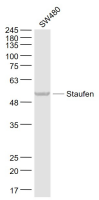
Predicted MW.: 63, 126 kDa

Subcellular Location: Cytoplasm

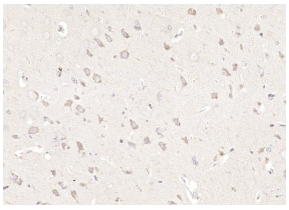
VALIDATION IMAGES



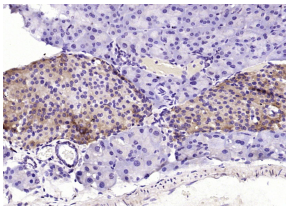
Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti- Staufen (bs-9877R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63/126 kD Observed band size: 55 kD



Sample: SW480(Human) Cell Lysate at 30 ug Primary: Anti- Staufen (bs-9877R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63/126 kD Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Staufen) Polyclonal Antibody, Unconjugated (bs-9877R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded

(mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Staufen) Polyclonal Antibody, Unconjugated (bs-9877R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=9.6]** de Morrée, Antoine, et al. "Staufen1 inhibits MyoD translation to actively maintain muscle stem cell quiescence." Proceedings of the National Academy of Sciences 114.43 (2017): E8996-E9005. ICC ;="Mouse". 29073096
- **[IF=9.504]** Morree et al. Staufen1 inhibits MyoD translation to actively maintain muscle stem cell quiescence. (2017) Proc.Natl.Acad.Sci.U.S.A. 114:E8996-E9005 IF ;Human, Mouse, Rat, Chicken, Cow, Horse,. 29073096