abcam

Product datasheet

Anti-Staufen antibody ab50914

★★★★★ 2 Abreviews 2 References 3 Images

Overview

Product name	Anti-Staufen antibody
Description	Rabbit polyclonal to Staufen
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Horse, Guinea pig, Cow, Dog, Pig
Immunogen	Synthetic peptide corresponding to Human Staufen aa 131-180 (N terminal). Sequence: LSVGGQQFNGKGKTRQAAKHDAAAKALRILQNEPLPERLEVNGRESEEEN (Peptide available as ab111678) Run BLAST with Run BLAST with
Positive control	HepG2 cell lysate; human intestinal tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 2% Sucrose, PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab50914** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	Use a concentration of 1.25 µg/ml. Predicted molecular weight: 63 kDa.Can be blocked with Human Staufen peptide (ab111678). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 - 5 µg/ml.

Target

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.

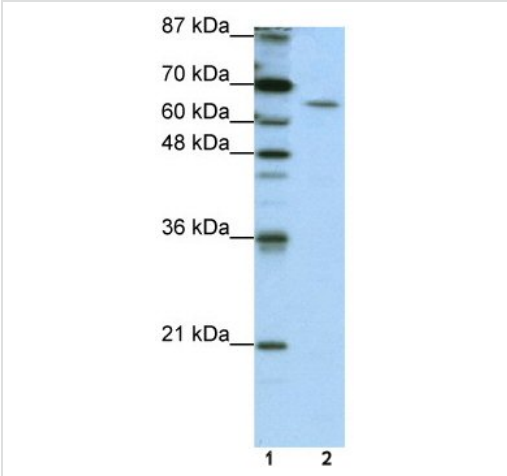
Tissue specificity
Widely expressed. Expressed in brain, pancreas, heart, skeletal muscles, liver, lung, kidney and placenta.

Sequence similarities
Contains 3 DRBM (double-stranded RNA-binding) domains.

Domain
One of the DRDB could be involved in RER binding.
The C-terminal contains the tubulin binding domain (TBD).

Cellular localization
Cytoplasm. Rough endoplasmic reticulum. Localizes exclusively with the rough reticulum endoplasmic.

Images



Western blot - Anti-Staufen antibody (ab50914)

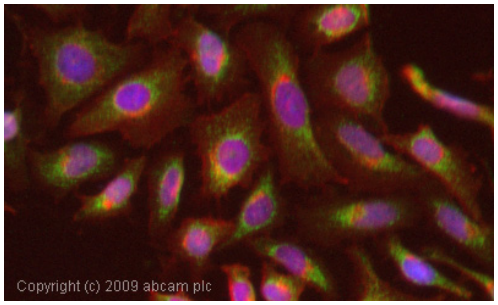
Lane 1 : Marker
Lane 2 : Anti-Staufen antibody (ab50914) at 1.25 µg/ml

Lane 2 : HepG2 cell lysate at 10 µg

Secondary
Lane 2 : HRP conjugated anti-Rabbit IgG at 1/50000 dilution

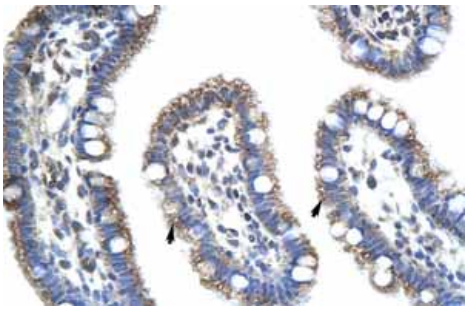
Predicted band size: 63 kDa

Gel concentration 12%



Immunocytochemistry/ Immunofluorescence - Anti-Staufen antibody (ab50914)

ICC/IF image of ab50914 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab50914, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Staufen antibody (ab50914)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human intestine tissue labelling Staufen with ab50914 at 8µg/ml. Arrows indicate positive staining of epithelial cells of intestinal villi.

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