

SHANK1 / SHANK3 Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56578 (clone S367-51)

Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

SHANK proteins are scaffolding adaptors that have been shown to integrate neurotransmitter receptors into the cortical cytoskeleton at postsynaptic densities. SHANK1-3 of the SHANK/ProSAP family are molecular scaffolds in the postsynaptic density (PSD). SHANK recruits betaPIX and PAK to dendritic spines to regulate postsynaptic structure and interacts with ionotropic receptor and metabotropic glutamate receptor complexes. Transcript splice variation in the Shank family influences the spectrum of Shank-interacting proteins in the PSDs of adult and developing brain to ensure normal development.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 538-626 (SH3 domain) of rat SHANK3. This sequence is 100% identical in mouse, 97% identical in human, and ~70% identical in SHANK1 and SHANK2.

Accession nos: NP_067708.1, Q9JLU4

Gene ID: 59312

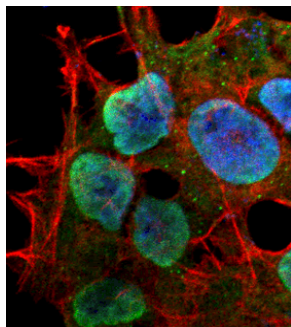
Host Species: Mouse

Antibody Class: IgG2a

Specificity: This antibody recognizes human, mouse, and rat SHANK1/SHANK3.

APPLICATIONS

Immunofluorescence: use at 10ug/ml.



Detection of SHANK1/SHANK3 in neuroblastoma cell line SK-N-BE with #56578 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) SHANK1/SHANK3 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.