Product Datasheet

SHANK3 Antibody (FITC) (orb150832)

Catalog Number	orb150832
Category	Antibodies
Description	Mouse monoclonal to SHANK1 (FITC). 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..
Target	SHANK3
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG2a
Conjugation	FITC
Reactivity	Human, Mouse, Rat
Concentration	1 mg/ml
Buffer/Preservatives	640.91mM DMSO, 136.36 mM Ethanolamine, 126.89 mM chlorides, 9.09mM phosphates, 9.09mM NaHCO3
Purification	Protein G Purified

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Immunogen	Fusion protein amino acids 538-626 (SH3 domain) of rat SHANK3. Mouse: 100% identity (89/89 amino acids identical). Human: 97% identity (87/89 amino acids identical). ~70% identity with SHANK1 and SHANK2.
UniProt ID	**Q9JLU4**
MW	190kDa
Tested applications	ICC, IF, IHC, WB
Dilution range	WB (1:1000), ICC/IF (1:100)
Application notes	1 µg/ml was sufficient for detection of SHANK1/SHANK3 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Specificity	Detects ~190kDa. Cross-reacts with SHANK1. Does not cross-react with SHANK2.
Clone Number	N367/51 (Formerly sold as S367-51)
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	**59312**
NCBI	**NP_067708.1**
Expiration Date	12 months from date of receipt.

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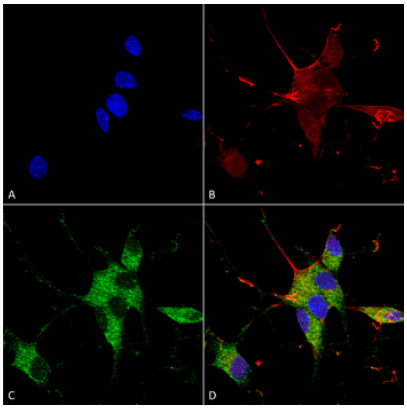

Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK1/SHANK3 Monoclonal Antibody, Clone N367/51. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-SHANK1/SHANK3 Monoclonal Antibody at 1:100 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) SHANK1/SHANK3 Antibody (D) Composite.

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