

Product Datasheet

SHANK2 Antibody (N23b/6)

NBP2-12914

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-12914

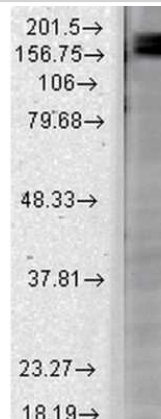
SHANK2 Antibody (N23b/6)

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	N23b/6
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Target Molecular Weight	159 kDa
Product Description	
Host	Mouse
Gene ID	22941
Gene Symbol	SHANK2
Species	Human, Mouse, Rat
Specificity/Sensitivity	Detects approx 160kDa. No cross-reactivity against Shank1 or Shank3. Weak mouse detection.
Immunogen	Fusion protein amino acids 84-309 (SH3/PDZ domains) of rat Shank2 (SH3 and multiple ankyrin repeat domains protein 2)
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Microarray
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation, Immunohistochemistry-Paraffin 0.1-1.0 ug/ml, Microarray
Application Notes	1 ug/ml of SHANK2 Antibody was sufficient for detection of Shank2 in 10 ug of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

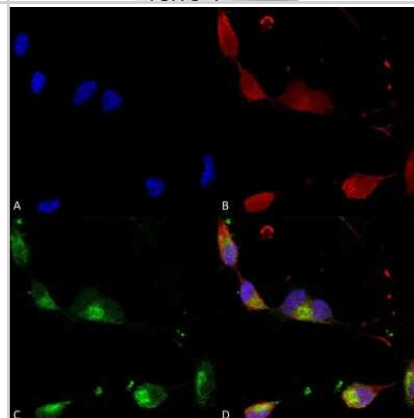


Images

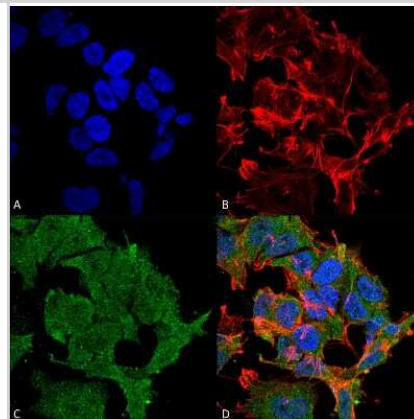
Western Blot: SHANK2 Antibody (N23b/6) [NBP2-12914] - Western Blot analysis of Rat brain membrane lysate showing detection of SHANK2 protein using Mouse Anti-SHANK2 Monoclonal Antibody, Clone S23b-6 (NBP2-12914). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SHANK2 Monoclonal Antibody (NBP2-12914) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence: SHANK2 Antibody (N23b/6) [NBP2-12914] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK2 Monoclonal Antibody, Clone S23b-6 (NBP2-12914). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-SHANK2 Monoclonal Antibody (NBP2-12914) at 1:100 for overnight at 4C 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) SHANK2 Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence: SHANK2 Antibody (N23b/6) [NBP2-12914] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK2 Monoclonal Antibody, Clone S23b-6 (NBP2-12914). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SHANK2 Monoclonal Antibody (NBP2-12914) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) SHANK2 Antibody. (D) Composite.



Publications

Guerra M, Medici V, Weatheritt R et al. Fetal exposure to valproic acid dysregulates the expression of autism-linked genes in the developing cerebellum Translational psychiatry 2023-04-05 [PMID: 37019889] (WB, Mouse)



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