Shank 2 rabbit pAb

Cat#: orb768152 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	Shank 2 rabbit pAb
Host species	Rabbit
Applications	WB;IHC
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	WB 1:500-2000;IHC-p 1:50-300
Immunogen	The antiserum was produced against synthesized peptide derived from human SHANK2. AA range:331-380
Specificity	Shank 2 Polyclonal Antibody detects endogenous levels of Shank 2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	SH3 and multiple ankyrin repeat domains protein 2
Gene Name	SHANK2
Cellular localization	Apical cell membrane . Cytoplasm . Cell junction, synapse . Cell junction, synapse, postsynaptic density . Cell projection, growth cone . Cell projection, dendritic spine . Colocalizes with cortactin in growth cones in differentiating hippocampal neurons. Colocalized with PDE4D to the apical membrane of colonic crypt cells (By similarity). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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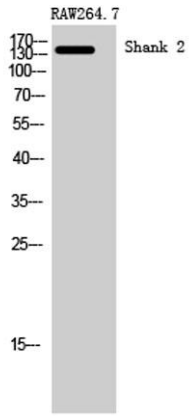
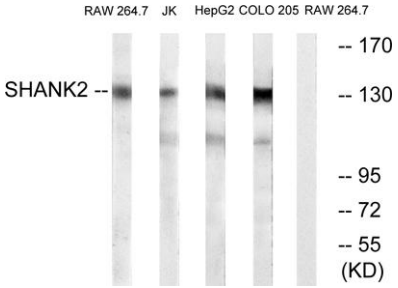
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	135kD
Human Gene ID	22941
Human Swiss-Prot Number	Q9UPX8
Alternative Names	SHANK2; CORTBP1; KIAA1022; SH3 and multiple ankyrin repeat domains protein 2; Shank2; Cortactin-binding protein 1; CortBP1; Proline-rich synapse-associated protein 1
Background	This gene encodes a protein that is a member of the Shank family of synaptic proteins that may function as molecular scaffolds in the postsynaptic density of excitatory synapses. Shank proteins contain multiple domains for protein-protein interaction, including ankyrin repeats, and an SH3 domain. This particular family member contains a PDZ domain, a consensus sequence for cortactin SH3 domain-binding peptides and a sterile alpha motif. The alternative splicing demonstrated in Shank genes has been suggested as a mechanism for regulating the molecular structure of Shank and the spectrum of Shank-interacting proteins in the postsynaptic densities of the adult and developing brain. Alterations in the encoded protein may be associated with susceptibility to autism spectrum disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014],



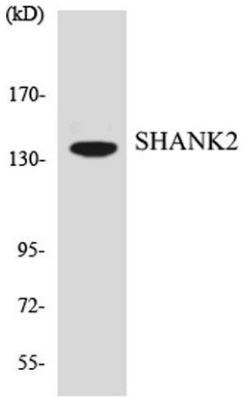
Western Blot analysis of RAW264.7 cells using Shank 2 Polyclonal Antibody

Biorbyt Ltd
7 Signet Court, Swann Road, Cambridge, CB5 8LA. United Kingdom
Email: info@biorbyt.com | Phone: +44 (0)1223 859-353 | Fax: +44 (0)1223 280-240

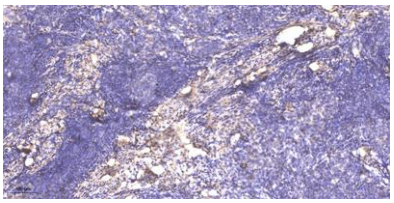
Biorbyt LLC
68 TW Alexander Drive, Durham, NC 27709. United States
Email: info@biorbyt.com | Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558



Western blot analysis of lysates from RAW264.7, Jurkat, HepG2, and COLO cells, using SHANK2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using SHANK2 antibody.



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

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68 TW Alexander Drive, Durham, NC 27709. United States
Email: info@biorbyt.com | Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558