10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SPRN Rabbit pAb

Catalog # AP96805

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8BWU1
Other Accession	Q8BWU1
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14591
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Shadow
Epitope Specificity	81-147/147
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SPRN family.
Post-translational modifications	N-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Prion diseases, or transmissible spongiform encephalopathies (TSEs), are manifested as genetic, infectious or sporadic lethal neurodegenerative disorders involving alterations of the prion protein (PrP). Constitutively expressed in normal adult brain, cellular PrP (PrP(C)) is sensitive to proteinase K digestion and is converted to the disease form, PrPSc, through alterations in protein folding conformation, which make it resistant proteases. SPRN (shadow of prion protein), also known as SHO or SHADOO, is a 151 amino acid cytoplasmic protein that is mainly expressed in brain. SPRN is considered a prion-like protein that has PrP(C)-like neuroprotective activity and may act as a modulator for the biological actions of normal and abnormal PrP. In humans, mutations in the gene encoding SPRN may be associated with variant and sporadic Creutzfeldt-Jakob disease, a degenerative neurological disorder that is incurable and invariably fatal

Additional Information

Gene ID	212518
Other Names	SHADOO; SHO; bA108K14.1; C630041J07; SPRN_HUMAN; SPRN; Protein shadoo; SPRN_MOUSE; Gm169; shadow of prion protein; shadow of prion protein homolog (zebrafish); hypothetical protein BC004409
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Sprn
Synonyms	Gm169
Function	Prion-like protein that has PrP(C)-like neuroprotective activity. May act as a modulator for the biological actions of normal and abnormal PrP.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor
Tissue Location	Mainly expressed in brain (at protein level). In brain, it is highly expressed in the hippocampus and cerebellum and is also expressed at lower level in other areas of the brain including the cerebral cortex, the thalamus and the medulla. In hippocampus and cerebellum it is highly expressed in the cell bodies of pyramidal cells and Purkinje cells, respectively.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.