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Rabbit Anti-SPRN antibody

SL2149R

Product Name:	SPRN
Chinese Name:	新朊蛋白抗体
Alias:	rCG47959; shadow of prion protein; SHO; Protein shadoo; bA108K14.1; C630041J07; FLJ41197; SPRN; Shadow of prion protein precursor; SPRN_MOUSE; SHADOO.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse Shadow:51-100/147
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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

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.

Subcellular Location:
Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity:
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.

Post-translational modifications:
N-glycosylated.

Similarity:
Belongs to the SPRN family.

SWISS:
Q8BWU1

Gene ID:
212518

Database links:

Entrez Gene: 503542Human

Entrez Gene: 212518Mouse

Omim: 610447Human

SwissProt: Q5BIV9Human

SwissProt: Q8BWU1Mouse

Unigene: 64968Human

Unigene: 246858Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 朊病毒蛋白(朊蛋白相关蛋白、沙杜蛋白)是导致动物脑细胞死亡的传染性病毒蛋白，是一种致病性神经蛋白。 朊蛋白相关蛋白Shadoo是近期才被发行的新朊蛋白，其传播、传染过程尚不清楚，发病机理还有待于研究中。