



Rabbit Anti-Gemin 2 antibody

SL1130R

Product Name:	Gemin 2
Chinese Name:	运动神经元存活蛋白Binding protein1抗体
Alias:	Component of gems 2; GEMI2_HUMAN; Gemin-2; gemin2; SIP 1; SIP-1; SIP1; SIP1 delta; SMN interacting protein 1; SMN interacting protein 1 delta; SMN-interacting protein 1; Survival interacting protein 1; Survival of motor neuron protein interacting protein 1; Survival of motor neuron protein-interacting protein 1. survival of motor neuron protein interacting protein 1; SMN protein interacting protein 1; KIAA0569; SIP 1; SIP1; SMADIP 1; SMADIP1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
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:	30kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SIP1:51-150/280
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:	Smad Interacting Protein 1 (SIP1) is observed in neural crest derived cells (peripheric nervous system, enteric nervous system, facial neurectoderm and cranial nerve ganglia),

central nervous system, genital tubercle, muscles and kidneys in the developing human. SIP1 belongs to the delta-EF1/Zfh1 family of 2-handed zinc finger/homeodomain proteins and contains a SMAD-binding domain, a homeodomain and two clusters of zinc fingers on the N- and C-termini. SIP1 can be induced by TGF. SIP1 plays a crucial role in normal embryonic development of neural structures and the neural crest. Mutations in the SIP1 gene cause a form of Hirschsprung disease (HSCR). Patients with SIP1 mutations show mental retardation, delayed motor development, epilepsy, microcephaly, distinct facial features and/or congenital heart disease. SIP1 is also involved in the regulation of epithelial to mesenchymal transition, an important process in tumor progression.

Function:

The SMN complex plays an essential role in spliceosomal snRNP assembly in the cytoplasm and is required for pre-mRNA splicing in the nucleus.

Subunit:

Part of the core SMN complex that contains SMN1, GEMIN2/SIP1, DDX20/GEMIN3, GEMIN4, GEMIN5, GEMIN6, GEMIN7, GEMIN8 and STRAP/UNRIP. Interacts directly with GEMIN5.

Subcellular Location:

Nucleus, gem. Cytoplasm. Note=Localized in subnuclear structures next to coiled bodies, called gems, which are highly enriched in spliceosomal snRNPs. Also found in the cytoplasm.

Similarity:

Belongs to the gemin-2 family.

SWISS:

O14893

Gene ID:

8487

Database links:

[Entrez Gene: 8487](#)Human

[Entrez Gene: 66603](#)Mouse

[Omim: 602595](#)Human

[SwissProt: O14893](#)Human

[SwissProt: Q9CQQ4](#)Mouse

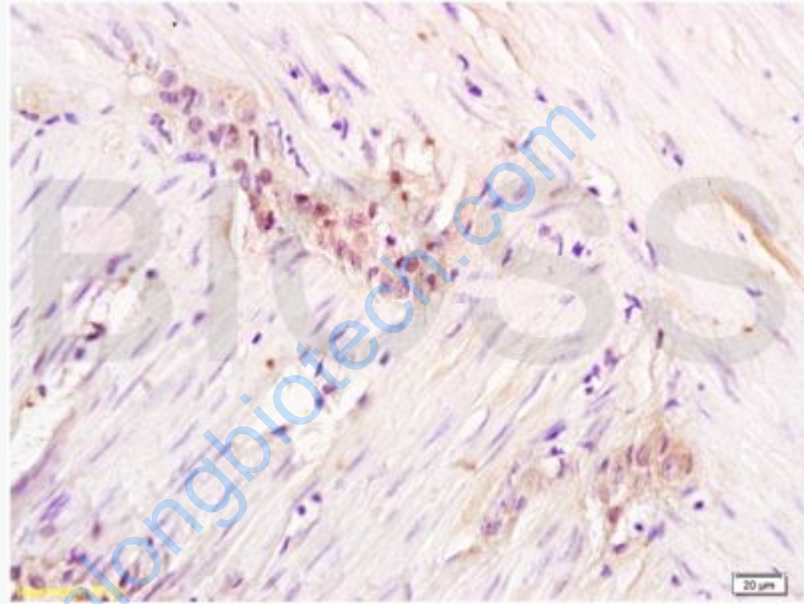
[SwissProt: O42260](#)Xenopus laevis

[Unigene: 652307](#)Human

[Unigene: 35353](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-SIP1 Polyclonal Antibody, Unconjugated(SL1130R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining