



Rabbit Anti-Intersectin 2 antibody

SL23114R

Product Name:	Intersectin 2
Chinese Name:	Intersectin 2抗体
Alias:	Intersectin-2; ITSN2; ITSN2_HUMAN; KIAA1256; PRO2015; SH3 domain-containing protein 1B; SH3D1B; SH3P18; SH3P18-like WASP-associated protein; SWA; SWAP.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	193kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Intersectin 2:301-400/1697
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
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:	Intersectin, which is also designated Ese1 or ITSN1, is a component of the cellular endocytic machinery. Intersectin is composed of two N-terminal Ese15 homology (EH) domains, a central highly charged region and five C-terminal SH3 domains, which all largely contribute to the association of Intersectin with other components of the endocytic pathway. The EH domain is particularly responsible for the directed localization of Intersectin to Clathrin-coated pits near the plasma membrane. Within the

endocytic vesicles the SH3 domains facilitate the binding of Intersectin with Dynamin, and the central domain is essential for the association of Intersectin with SNAP 25. Two isoforms of Intersectin are produced as a result of alternative splicing in a stop codon, and they are designated as Intersectin-short and long (or IntersectinS and IntersectinL) to reflect an extended C-terminal domain. The long form, which has an extended C-terminal domain, is specifically expressed in neurons; the short form is detected in both glial and nonneuronal cells. The related proteins Intersectin-2 and the murine homolog Ese2 also contain the characteristic N-terminal EH domains, the central coiled-coil domain and five C-terminal SH3 domains and are likely involved the endocytic scaffolding complexes.

Function:

Adapter protein that may provide indirect link between the endocytic membrane traffic and the actin assembly machinery. May regulate the formation of clathrin-coated vesicles.

Subunit:

Belongs to a complex that may contain multimers of ITSN1, ITSN2 and EPS15, and different partners according to the step in the endocytic process. Interacts with ADAM15. Interacts with FASLG. Interacts with ANKRD54. Interacts with FCHO2.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Ubiquitous. Isoform 1 is primarily expressed in adult heart and liver.

Similarity:

Contains 1 C2 domain.
Contains 1 DH (DBL-homology) domain.
Contains 2 EF-hand domains.
Contains 2 EH domains.
Contains 1 PH domain.
Contains 5 SH3 domains.

SWISS:

Q9NZM3

Gene ID:

50618

Database links:

[Entrez Gene: 50618](#) Human

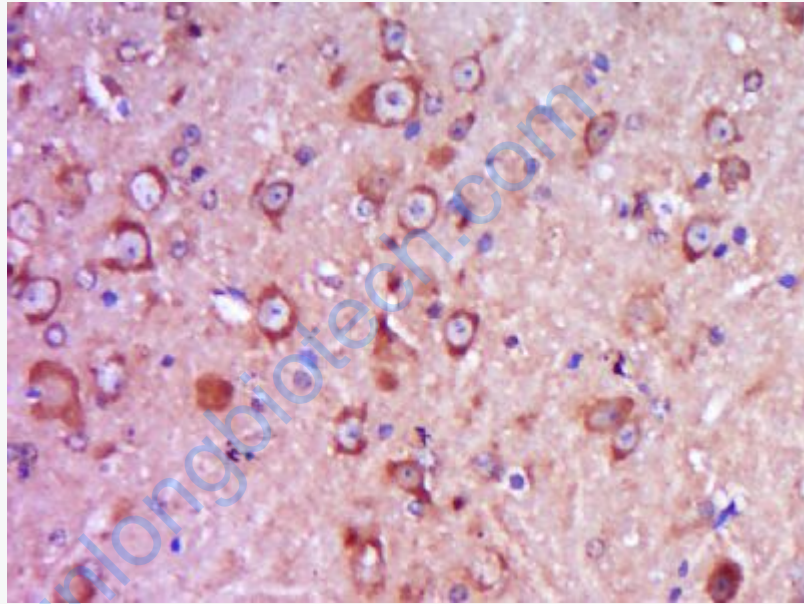
[Omim: 604464](#) Human

[SwissProt: Q9NZM3](#) Human

[Unigene: 432562](#) Human

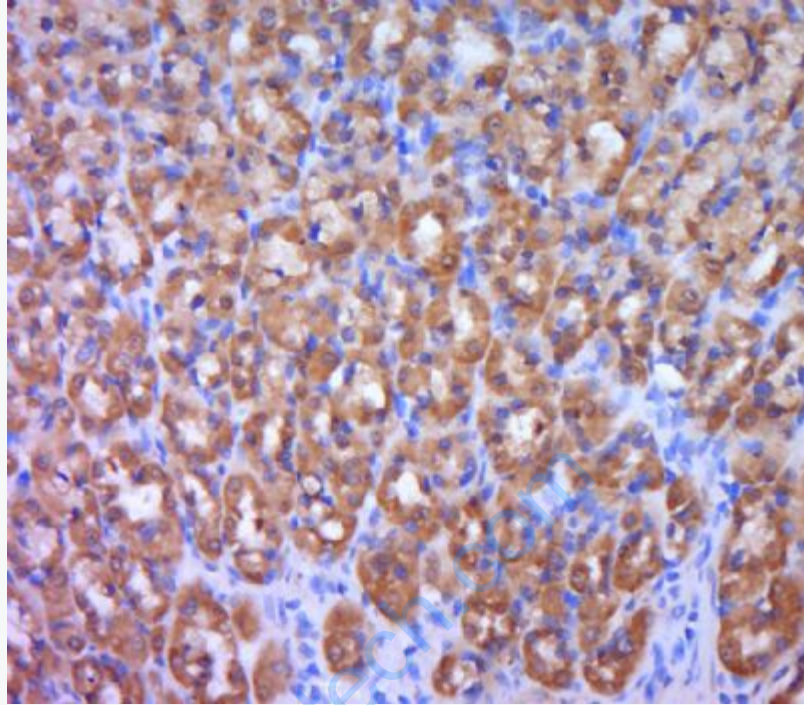
Important Note:

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



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Intersectin 2) Polyclonal Antibody, Unconjugated (SL23114R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Intersectin 2) Polyclonal Antibody, Unconjugated (SL23114R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.