

Intersectin 1 Rabbit pAb

CatalogNo: YN6892

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 189kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human Intersectin 1

Specificity This antibody detects endogenous levels of Intersectin 1 at Human, Mouse, Rat

Target Information

Gene name ITSN1 ITSN SH3D1A

Protein Name	Intersectin-1 (SH3 domain-containing protein 1A) (SH3P17)		
	Organism	Gene ID	UniProt ID
	Human	6453 ;	Q15811 ;
	Mouse	16443 ;	Q9Z0R4 ;
	Rat	29491 ;	Q9WVE9 ;
Cellular Localization	Endomembrane system . Cell junction, synapse, synaptosome . Cell projection, lamellipodium . Cell membrane . Membrane, clathrin-coated pit . Recycling endosome . Endosome . Cytoplasmic vesicle . Colocalizes with SGIP1 at the plasma membrane in structures corresponding most probably to clathrin-coated pits (PubMed:20946875). Colocalizes with RAB13 on cytoplasmic vesicles that are most likely recycling endosomes (PubMed:29030480). .; [Isoform 2]: Cytoplasm . Endomembrane system . Nucleus envelope . Shuttles between the cytoplasm and nucleus in an XPO1/CRM1-dependent manner. .; [Isoform 5]: Endomembrane system .		
Tissue specificity	Isoform 1 is expressed almost exclusively in the brain. Isoform 2 is detected in brain, spleen, lung, liver, heart, skeletal muscle and kidney. Isoform 5 is primarily expressed in brain, spleen, lung and kidney (at protein level) (PubMed:21712076). Isoform 1 and isoform 2 are detected in brain (PubMed:10482960). Isoform 2 is ubiquitous in adult and fetal tissues with high expression in skeletal muscle, heart, spleen, ovary, testis and all fetal tissues tested and low expression in thymus, blood, lung, liver and pancreas. Isoform 1 is expressed almost exclusively in the brain, in all brain regions. Not expressed in the spinal cord (PubMed:9799604, PubMed:21712076, PubMed:11690630).		
Function	Adapter protein that provides a link between the endocytic membrane traffic and the actin assembly machinery . Acts as guanine nucleotide exchange factor (GEF) for CDC42, and thereby stimulates actin nucleation mediated by WASL and the ARP2/3 complex . Plays a role in the assembly and maturation of clathrin-coated vesicles (By similarity). Recruits FCHSD2 to clathrin-coated pits . Involved in endocytosis of activated EGFR, and probably also other growth factor receptors (By similarity). Involved in endocytosis of integrin beta-1 (ITGB1) and transferrin receptor (TFR); internalization of ITGB1 as DAB2-dependent cargo but not TFR may involve association with DAB2 . Promotes ubiquitination and subsequent degradation of EGFR, and thereby contributes to the down-regulation of EGFR-dependent signaling pathways. In chromaffin cells, required for normal exocytosis of catecholamines. Required for rapid replenishment of release-ready synaptic vesicles at presynaptic active zones (By similarity). Inhibits ARHGAP31 activity toward RAC1 .; [Isoform 1]: Plays a role in synaptic vesicle endocytosis in brain neurons.		

| Validation Data

| Contact information

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**Intersectin 1 Rabbit
pAb**

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