SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-SNX5 antibody

SL12248R

Product Name:	SNX5
Chinese Name:	分选连接蛋白5抗体
Alias:	0910001N05Rik; 1810032P22Rik; AU019504; D2Ertd52e; FLJ10931; OTTHUMP00000030340; OTTHUMP00000062927; OTTMUSP00000003367; OTTMUSP00000003368; RP11-504H3.2; RP23-35E16.2; snoRNA MBI-43; SNX 5; SNX5; SNX5_HUMAN; Sorting nexin 5; Sorting nexin-5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=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:	47kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human SNX5:2-75/404
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:	Sorting nexin 1 (SNX1) is a member of a large family of hydrophilic proteins that interact with a variety of receptor types and are involved in intracellular trafficking (1). SNX1 and the related splice variant, SNX1A, bind the epidermal growth factor (EGF) receptor, facilitate its transport to lysosome, and thereby contribute to the degradation of

the receptor (2,3). SNX2 and SNX4 share a high degree of amino acid similarity with SNX1, as they all contain a characteristic phox homology (PX) domain (4). These proteins are all partially associated with cellular membranes, and they, likewise, associate with EGF, PDGF and insulin receptor tyrosine kinases (2). These nexins are widely expressed and yet have various tissue distribution patterns. Additionally, the sorting nexins can associate with each other and with a variety of other cellular proteins, suggesting that they exist as part of multisubunit complexes (1,5). The related protein, SNX3, comprises a distinct subgroup of nexins that share less sequence similarity outside of the PX domain and have dramatically different binding affinities for the tyrosine kinase receptors (2,6).

Function:
May be involved in several stages of intracellular trafficking. Plays a role in macropinocytosis. Plays a role in the internalization of EGFR after EGF stimulation.

Subunit:
Interacts with SNX1; this promotes location at the endosome membrane.

Subcellular Location:
Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Cell projection, phagocytic cup. Cell projection, ruffle. Note=Recruited to the plasma membrane after EGF stimulation, which leads to increased levels of phosphatidylinositol 3,4-bisphosphate (PdtIns(3,4)P2). Detected on macropinosomes. Targeted to membrane ruffles in response to EGFR stimulation.

Similarity:
Belongs to the sorting nexin family.
Contains 1 BAR domain.
Contains 1 PX (phox homology) domain.

SWISS:
Q9Y5X3

Gene ID:
27131

Database links:

Entrez Gene: 514423Cow

Entrez Gene: 27131Human

Entrez Gene: 69178Mouse

Entrez Gene: 296199Rat

	Omim: 605937Human SwissProt: Q3ZBM5Cow SwissProt: Q9Y5X3Human SwissProt: Q9D8U8Mouse SwissProt: B1H267Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.