SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-NUMB/HRP Conjugated antibody

Catalog Number: SL3510R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-NUMB/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human NUMB
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Background:	background: The protein encoded by this gene plays a role in the determination of cell fates during development. The encoded protein, whose degradation is induced in a proteasome-dependent manner by MDM2, is a membrane-bound protein that has been shown to associate with EPS15, LNX1, and NOTCH1. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]. **Function:** Plays a role in the process of neurogenesis. Required throughout embryonic neurogenesis to maintain neural progenitor cells, also called radial glial cells (RGCs), by allowing their daughter cells to choose progenitor over neuronal cell fate. Not required for the proliferation of neural progenitor cells before the onset of neurogenesis. Also involved postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. May also mediate local repair of brain ventricular wall damage. **Subunit:** Interacts with CDH1 and TFAP2B (By similarity). Interacts with

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	EPS15, LNX and NOTCH1. May interact with DUOXA1. Interacts with RALBP1 in a complex also containing EPN1 and TFAP2A during interphase and mitosis. **Subcellular Location:** Membrane; Peripheral membrane protein. **Post-translational modifications:** Phosphorylated on Ser-276 and Ser-295 by CaMK1. Isoform 1 and isoform 2 are ubiquitinated by LNX leading to their subsequent proteasomal degradation. Ubiquitinated; mediated by SIAH1 and leading to its subsequent proteasomal degradation. **Similarity:** Contains 1 PID domain. **Database links:** **Entrez Gene:** 8650 Human **Entrez Gene:** 18222 Mouse **Entrez Gene:** 29419 Rat Omim: 603728 Human **SwissProt:** P49757 Human **SwissProt:** Q9QZS3 Mouse **SwissProt:** Q2LC84 Rat **Unigene:** 654609 Human **Unigene:** 714879 Human **Unigene:** 4390 Mouse **Unigene:** 102078 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Membrane-associated protein Numb is a cell fate determinant: during cell mitosis, Numb is selectively distributed on one side of the cell, and after cytokinesis it is allocated to one daughter cell. Numb functions by inhibiting the transmembrane receptor Notch, The Numb signaling pathway plays an important role in the neuronal regulation of precursor cells.

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