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NUMB Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11449a

Product Information

Application	WB, IHC-P, E
Primary Accession	P49757
Other Accession	Q2LC84, Q9QZS3, NP_003735.3, NP_001005743.1, NP_001005745.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14789
Calculated MW	70804
Antigen Region	1-30

Additional Information

Gene ID	8650
Other Names	Protein numb homolog, h-Numb, Protein S171, NUMB
Target/Specificity	This NUMB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human NUMB.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NUMB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NUMB (HGNC:8060)
Function	Regulates clathrin-mediated receptor endocytosis (PubMed: 18657069). Plays a role in the process of neurogenesis (By similarity). 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 (By similarity). 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 (By similarity). May also mediate local repair of brain ventricular wall damage (By similarity).
Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Endosome membrane; Peripheral membrane protein; Cytoplasmic side. Note=Localizes to perinuclear endosomes in an AAK1-dependent manner.

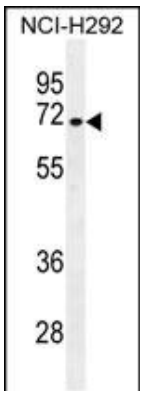
Background

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.

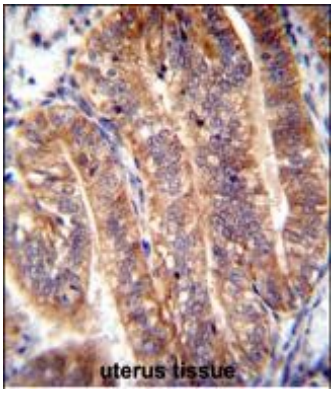
References

Rennstam, K., et al. Breast Cancer Res. Treat. 122(2):315-324(2010)
Lu, C.B., et al. Neuroscience 161(2):403-412(2009)
Chen, H., et al. Pathobiology 76(3):149-154(2009)
Schluter, T., et al. Biochem. Biophys. Res. Commun. 379(4):909-913(2009)
Kyriazis, G.A., et al. J. Biol. Chem. 283(37):25492-25502(2008)

Images



NUMB Antibody (N-term) (Cat. #AP11449a) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the NUMB antibody detected the NUMB protein (arrow).



NUMB Antibody (N-term) (Cat. #AP11449a)immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NUMB Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.