

Anti-NUMB Picoband Antibody
Catalog # ABO11992

Specification

Anti-NUMB Picoband Antibody - Product Information

Application	WB
Primary Accession	P49757
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Protein numb homolog(NUMB) detection. Tested with WB in Human;Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NUMB Picoband Antibody - Additional Information

Gene ID 8650

Other Names

Protein numb homolog, h-Numb, Protein S171, NUMB

Calculated MW

70804 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse

Subcellular Localization

Membrane; Peripheral membrane protein.

Protein Name

Protein numb homolog

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human NUMB(194-220aa SFRVTTATEQAEREEIMKMQMDAKKAE), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 PID domain.

Anti-NUMB Picoband Antibody - Protein Information

Name NUMB ([HGNC:8060](#))

Function

Regulates clathrin-mediated receptor endocytosis (PubMed:[18657069](http://www.uniprot.org/citations/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

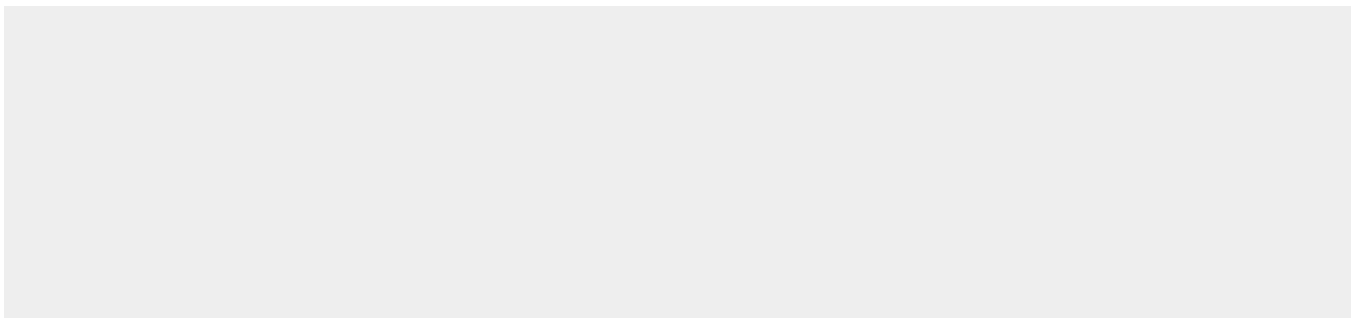
Cell membrane; Peripheral membrane protein; Cytoplasmic side. Endosome membrane; Peripheral membrane protein; Cytoplasmic side. Note=Localizes to perinuclear endosomes in an AAK1-dependent manner.

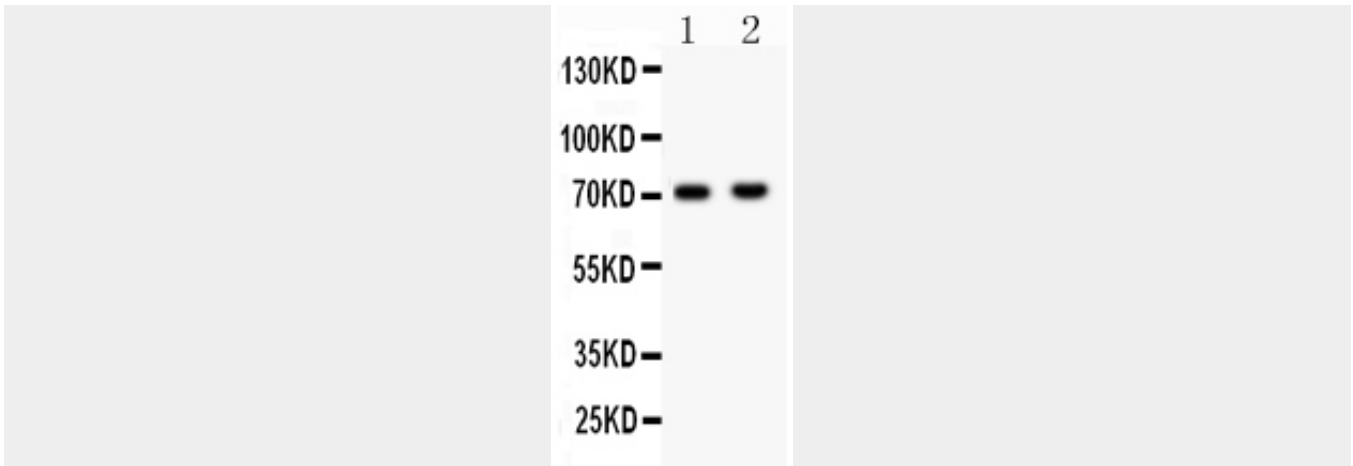
Anti-NUMB Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NUMB Picoband Antibody - Images





Anti- NUMB Picoband antibody, ABO11992, Western blotting All lanes: Anti NUMB (ABO11992) at 0.5ug/ml Lane 1: U87 Whole Cell Lysate at 40ug Lane 2: NEURO Whole Cell Lysate at 40ug Predicted bind size: 71KD Observed bind size: 71KD

Anti-NUMB Picoband Antibody - Background

Protein numb homolog is a protein that in humans is encoded by the NUMB gene. It is mapped to 14q24.2 to q24.3. 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. The primary function of Numb in cell differentiation is as an inhibitor of Notch signaling which is essential for maintaining self-renewal potential in stem and progenitor cells. Numb also plays a crucial role in asymmetrical cell division during development, allowing for differential cell fate specification in the central and peripheral nervous systems. What's more, the numb gene protein product controls binary cell fate decisions in the peripheral and central nervous systems of both invertebrates and mammals during neurogenesis.