



Rabbit Anti-NUMBL antibody

SL11974R

Product Name:	NUMBL
Chinese Name:	膜相关蛋白样蛋白NUMBL抗体
Alias:	CAG 3A; CAG3A; CTG 3a; CTG3a; NBL; NUMB Drosophila Homolog Like; Numb homolog (Drosophila) like; Numb homolog like; Numb like protein; NUMB R; Numb-like protein; Numb-R; Numb-related protein; NUMBL; NUMBL_HUMAN; NUMBR; TNRC 23; TNRC23.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,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:	65kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NUMBL:75-120/609
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:	In Drosophila, neuronal cell fate decisions are directed by NUMB, a signaling adapter protein with two protein-protein interaction domains, namely a phosphotyrosine-binding domain and a proline-rich SH3-binding region (PRR). The mammalian NUMB homolog plays a role in the determination of cell fate during development and binds

with a variety of proteins, including Eps15, LNX1 and Notch 1. NumbL (NUMB-like protein), also known as Numb-R, NBL, CAG3A, CTG3a, NUMBLIKE or TNRC23, is a 609 amino acid cytoplasmic protein that, like NUMB, is thought to play a role in cell fate. Expressed at high levels in developing brain tissue, NumbL contains one PID (phosphotyrosine interaction domain) and plays an important role in neuronal differentiation, possibly associating with Eps15 and Notch 1. In mice, deletion of the NumbL gene is associated with early embryonic death, suggesting an essential role for NumbL in early development.

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 embryonic neurogenesis. Also required postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. Negative regulator of NF-kappa-B signaling pathway. The inhibition of NF-kappa-B activation is mediated at least in part, by preventing MAP3K7IP2 to interact with polyubiquitin chains of TRAF6 and RIPK1 and by stimulating the 'Lys-48'-linked polyubiquitination and degradation of TRAF6 in cortical neurons.

Subunit:

Interacts (via PTB domain) with MAP3K7IP2 (via C-terminal). Interacts (via C-terminal) with TRAF6 (via TRAF domains). Associates with EPS15 and NOTCH1.

Subcellular Location:

Cytoplasm. Symmetrically distributed throughout the cytoplasm in non dividing neuroblasts of the CNS.

Similarity:

Contains 1 PID domain.

SWISS:

Q9Y6R0

Gene ID:

9253

Database links:

[Entrez Gene: 9253](#)Human

[Entrez Gene: 18223](#)Mouse

[Entrez Gene: 292732](#)Rat

[Omim: 604018](#)Human

[SwissProt: Q9Y6R0](#)Human

[SwissProt: O08919](#)Mouse

[SwissProt: A1L113](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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