

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 like; Numb homolog like; Numb like protein; NUMB R; Numb-like protein; Numb-R; Numb-re NUMBL; NUMBL_HUMAN; NUMBR; TNRC 23; TNRC23.

Research Area Cell biology Neurobiology Signal transduction Apoptosis transcriptional regulatory factor Cell c The cell membrane 蛋白

Immunogen Species Rabbit

Clonality Polyclonal

React Species (predicted: Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Sheep,)

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 65kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human NUMBL: 75-120/609

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed [PubMed](#)

In *Drosophila*, neuronal cell fate decisions are directed by NUMB, a signaling adapter protein with protein-protein interaction domains, namely a phosphotyrosine-binding domain and a proline-rich region (PRR). The mammalian NUMB homolog plays a role in the determination of cell fate during neurogenesis 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, NumbL contains one PID (phosphotyrosine interaction domain) and plays an important role in neuronal cell fate, possibly associating with Eps15 and Notch 1. In mice, deletion of the NumbL gene is associated with 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 neuronal cell fate. Not required for the proliferation of neural progenitor cells before the onset of neurogenesis. Also required postnatally in the subventricular zone (SVZ) neurogenesis by regulating neuroblasts survival and ependymal wall integrity. Negative regulator of NF-kappa-B signaling pathway. Inhibition of NF-kappa-B activation is mediated at least in part, by preventing MAP3K7IP2 to inhibit ubiquitination 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.

**Product
Detail**

Subcellular Location:

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

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



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[SwissProt: Q9Y6R0](#) Human

[SwissProt: O08919](#) Mouse

[SwissProt: A1L1I3](#) Rat