

## Numblake

**Cat.No. 374 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)**

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> 1 : 100 <b>IHC:</b> 1 : 500 <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Synthetic peptide corresponding to AA 579 to 595 from mouse Numbl (UniProt Id: O08919)
Reactivity	Reacts with: rat (A1L1I3), mouse (O08919). Other species not tested yet.
Specificity	Specific for Numblake. (K.O. verified)
matching control	374-OP

### TO BE USED IN VITRO / FOR RESEARCH ONLY

### NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Numb proteins (**Numblake** and Numb) display a complex pattern of functions such as the control of asymmetric cell division, cell fate choice, endocytosis, cell adhesion, and cell migration. They have been shown to inhibit Notch signaling by stimulating endocytosis of Notch.

Numb and Numblake have at least partially distinct functions. Numblake is a negative regulator of the NF-κB signaling pathway by abrogating TRAF5-induced activation of NF-κB. Recently, Numblake was implicated as a physiologically relevant target of microRNA miR-34a in neural progenitor cells allowing for enhanced Notch signaling and inhibition of neuronal differentiation.

Numb and Numblake are essential in maintaining neural progenitor cells during early neurogenesis by allowing cells to choose progenitor over neuronal fates. They were recently also discovered to be involved in cardiac morphogenesis.

### Selected General References

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