Synaptic Systems

Rudolf-Wissell-Str. 28
37079 Göttingen, Germany
Phone: +49 551-50556-0
Fax: +49 551-50556-384
E-mail: sales@sysy.com
Web: www.sysy.com

Numb

Cat.No. 373-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 625 to 644 from mouse Numb (UniProt Id: Q9QZS3)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	373 003
Remarks	This control peptide consists of the synthetic peptide (aa 625-644 of mouse Numb) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Numb proteins (**Numb** and Numblike) display a complex pattern of functions such as the control of asymmetric cell division, cell fate choice, endocytosis, cell adhesion, and cell migration. Numb has been shown to inhibit Notch signaling by recruiting α-Adaptin and stimulating endocytosis of Notch. It was also demonstrated that Numb helps activate the tumor suppressor p53, suggesting that loss of Numb in cancerous cells would result in both the activation of the potential oncogene Notch and the diminution of tumor suppression by p53. Numb is itself regulated via ubiquitinylation.
Numb and Numblike are redundant but essential in maintaining neural progenitor cells during early neurogenesis by allowing cells to choose progenitor over neuronal fates. Numb and Numblike were also recently discovered to be involved in cardiac morphogenesis.
Four isoforms of mammalian Numb are described with predicted molecular masses of 65, 66, 71, and 72 kDa.

Selected General References

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