Data Sheet

Reconstitution/Storage 50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Albumin was added for stabilization. For reconstitution add 50 µl H₂O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.

Applications
- WB: 1:1000 (AP staining)
- IP: not tested yet
- IHC: 1:500
- IHC-P/FFPE: not tested yet

Immunogen Synthetic peptide corresponding to AA 625 to 644 from mouse Numb (UniProt Id: Q9QZS3)

Reactivity Reacts with: rat (Q2LC84), mouse (Q9QZS3). Other species not tested yet.

Specificity Specific for Numb. Recognizes all four isoforms. (K.O. verified)

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 ubiquitylation.

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


