Human Numb Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4338

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Numb in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Numb Thr356-Leu592 Accession # AAH68476
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

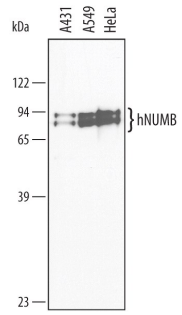
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	Immersion fixed A549 human lung carcinoma cell line

DATA

Western Blot



Detection of Human Numb by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, A549 human lung carcinoma cell line, and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human Numb Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4338) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Numb at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Numb is a 75 kDa member of a family of cytoplasmic adaptor proteins termed CLASPS (clathrin-associated sorting proteins). These link transmembrane cargo proteins to the endocytic machinery. Numb is normally associated with the basolateral surface of polarized cells and has been shown to regulate cell fate by modulating activity of the Notch pathway. Human Numb is 651 amino acids (aa) in length. It contains one phosphotyrosine-binding domain (PTB; aa 24-172) and one proline-rich region (PRR; aa 366-413). There is a potential for multiple alternate splice forms that involve all regions of the molecule. Over aa 356-592, human Numb shares 88% and 90% aa identity with mouse and canine Numb, respectively.

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