

AbboMax, Inc

Innovation at Work

Rabbit anti Neuropilin 1 (pThr⁹¹⁶), Phosphospecific

Alternate Names: CD304 antigen, NRP1, VEGF Receptor

Order Information

Description: Rabbit anti-Neuropilin1 (pThr⁹¹⁶)
Catalogue#: 620-330
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu, Bv

ANTIGEN PREPARATION

A synthetic peptide surrounding the epitope –LNTQS- with a phosphorylation site at Thr916. This sequence is identical among human and bovine.

BACKGROUND

The neuropilin-1 (Nrp1) is a multifunctional protein, identified principally as a receptor for the class 3 semaphorins and members of the vascular endothelial growth factor (VEGF) family, but it is capable of other interactions. It is a marker of regulatory T cells (Tr), which often carry Nrp1 and latency-associated peptide (LAP)-TGF-beta1 (the latent form). Nrp1 is reported to be expressed in breast cancer cells. The ischemia can increase neuropilin 1 protein expression in experimental rat brain as well. The phosphorylation of Nrp1 is essential for the Nrp1 activation.

PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~130 kDa of human Neuropilin1 protein at the phosphorylation site of Thr 916. It does not cross react to non-phospho Neuropilin 1. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

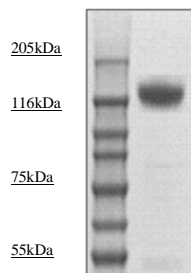
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	1:200
Flow cytometry	Not tested

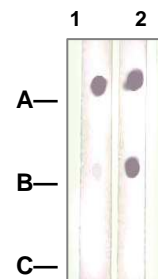
MOLECULAR WEIGHT:	130 kDa
POSITIVE CONTROL:	Human Brain Tissue
CELLULAR LOCATION:	Cytoplasmic/membrane

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Western Blot: The 4 mg protein of whole tissue lysates derived from human brain were immunoprecipitated by 4 µg of Rabbit anti-Neuropilin1(pThr916) (Cat#620-330) o/n @ 4oC, and probed by the same antibody at 1:1000. An immunoreactive band at ~130kDa was observed.



Dot Blot:

1 µg peptide was blot onto NC membrane
A:Neuropilin1 (Phosphospecific peptide at pT916)
B: Neuropilin1 (Nonphospho PP);
C: Non-related phosphospecific PP were blotted at a 1:1000 dilution by:
1: Rabbit anti-Neuropilin1(pT916), (Cat#620-330);
2: Rabbit anti-Neuropilin1 (paired T916) (Cat#620-340)

REFERENCES

- Eldar Hochman et al. Molecular Pathways Regulating Pro-migratory Effects of Hedgehog Signaling. J. Biol. Chem., Vol. 281, Issue 45, 33860-33870, November 10, 2006
- Glinka Y, et al. Neuropilin-1 is a receptor for transforming growth factor beta-1, activates its latent form, and promotes regulatory T cell activity. J Leukoc Biol. 2008 Jul; 84(1): 302-10. Epub 2008 Apr 24

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