

# AbboMax, Inc

Innovation at Work

## Rabbit anti Neuropilin 1, Non-Phosphospecific

Alternate Names: CD304 antigen, NRP1, VEGF Receptor

### ANTIGEN PREPARATION

A synthetic peptide surrounding the epitope –LNTQS- without 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 without phosphorylation site of Thr 916. It does not cross react to phospho Neuropilin 1. The other species are not tested.

### 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

### DATA ATTACHMENTS

205kDa

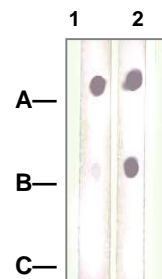
116kDa

75kDa

55kDa



**Western Blot:** The 4 mg protein of whole tissue lysates derived from human brain were immunoprecipitated by 4 µg of Rabbit anti-Neuropilin1Paired T916 (Cat#620-340) 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

**FOR RESEARCH USE ONLY.**

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### Order Information

Description: Rabbit anti-Neuropilin1 (Paired Thr916)  
Catalogue#: 620-340  
Lot#: See the label  
Size: 100 µg/200 ul  
Host: Rabbit  
Clone: N/A  
Application: ELISA, WB, IHC  
Reactivity: H, B