



## Rabbit Anti-Human NRP1 (Phospho Y297) Polyclonal Antibody (CABT-CS458)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Specificity</b>	This antibody recognizes human Neuropilin-1 (pY297) protein with a phosphorylation site Tyrosine 297. It cross reacts to human, mice and rat.
<b>Target</b>	NRP1
<b>Immunogen</b>	A synthetic peptide SSQ-Y*-STNWSA corresponding to the phosphorylation site Tyrosine 297 of Neuropilin-1 protein. This sequence is identical to human, mouse, rat.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Purification</b>	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
<b>Conjugate</b>	unconjugated
<b>Applications</b>	IHC (P), WB, ELISA, IP
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer
<b>Preservative</b>	None
<b>Storage</b>	The antibodies are stable for 24 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.

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## BACKGROUND

### Introduction

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.

### Keywords

NRP1; neuropilin 1; NRP; BDCA4; CD304; VEGF165R; neuropilin-1; transmembrane receptor

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