

## Anti-Neuropilin 1 Antibody Picoband® (monoclonal, 4G3F7) PE Conjugated

Catalog Number: M01324-1-PE

### About NRP1

This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contain a short membrane-spanning domain and a small cytoplasmic domain. Neuropilins bind many ligands and various types of co-receptors; they affect cell survival, migration, and attraction. Some of the ligands and co-receptors bound by neuropilins are vascular endothelial growth factor (VEGF) and semaphorin family members. Several alternatively spliced transcript variants that encode different protein isoforms have been described for this gene.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-Neuropilin 1 Antibody Picoband® (monoclonal, 4G3F7) PE Conjugated  |
| Reactive Species     | Human, Rat  |
| Application          | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Monoclonal 4G3F7  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.  |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.  |
| Host                 | Mouse   |
| Uniprot ID           | O14786  |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | E.coli-derived human Neuropilin 1 recombinant protein (Position: K504-T827). Human Neuropilin 1 shares 95% and 94% amino acid (aa) sequences identity with mouse and rat Neuropilin 1, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins.   |
| Isotype          | Mouse IgG2b  |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.   |
| Conjugate        | PE   |

|                     |  |
|---------------------|--|
|                     | Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users.         |

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