

## Anti-HIP1R Antibody Picoband® FITC Conjugated

Catalog Number: A05059-2-FITC

### About HIP1R

Huntingtin-interacting protein 1-related protein is a protein that in humans is encoded by the HIP1R gene. Huntingtin-interacting protein 1-related protein, or HIP1R, was identified on the basis of its structural homology with Huntingtin-interacting protein 1, or HIP1. Based on its domain structure, HIP1R is a putative endocytosis-related protein. Knockdown of HIP1R impairs the endocytosis of activated epidermal growth factor receptor (EGFR) and the consequent activation of the downstream ERK and Akt proteins. Additionally, HIP1R is a component of the clathrin-coated pits and vesicles, which in part links the endocytic machinery to the actin cytoskeleton. It binds to 3-phosphoinositides via ENTH domains to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis. HIP1R deficiency significantly reduces the expression of the ionotropic glutamate receptor GluA1, GluN2A, and GluN2B subunits, but not the GABAA receptor alpha1 subunit. Knockdown of HIP1R reduces the amplitude and frequency of the miniature excitatory postsynaptic current, but not of the miniature inhibitory postsynaptic current. HIP1R has been identified as a protein that can target histone deacetylase-3-mediated neurodegeneration, along with other proteins like NPTX1, NFL, TEX10, and TGFFG.

### Overview

Product Name	Anti-HIP1R Antibody Picoband® FITC Conjugated
Reactive Species	Human, Monkey, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
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	Rabbit
Uniprot ID	O75146

### Technical Details

Immunogen	E.coli-derived human HIP1R recombinant protein (Position: E316-E734).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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Anti-HIP1R Antibody - FITC

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