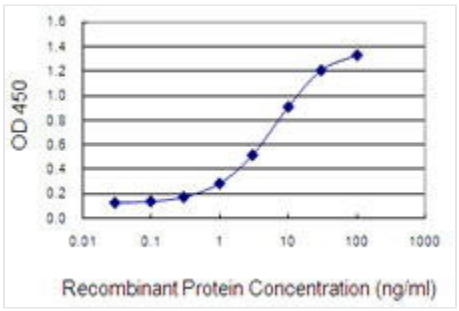
GRIP1 Antibody – Mouse Monoclonal

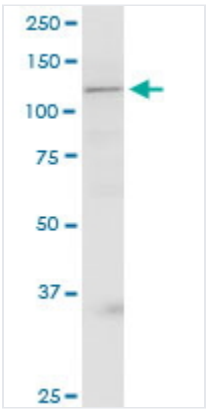
PRODUCT OVERVIEW

Product Name	GRIP1, Monoclonal Antibody
Full Product Name	GRIP1 (Glutamate Receptor Interacting Protein 1, GRIP) (Biotin)
Product Gene Name	anti-GRIP1 antibody
Product Synonym Names	Glutamate Receptor Interacting Protein 1; GRIP
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4A9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes GRIP1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	116,371 Da
OMIM	phenotype 604597
3D Structure	ModBase 3D Structure for Q9Y3R0
Immunogen	GRIP1 (XP_290559, 851aa-950aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QSGILRELEATIMSGSTMSLNHEAPTPRSQLGRQASFQERSSSRPHYSQTTRSNTLPSDVGRKSVTLRKMKQEIKEIMSPTPVELHKVTLYKDSDMEDFG
Conjugate	Biotin
Product Categories/Family for anti-GRIP1 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-GRIP1 antibody	Western Blot (WB)
Application Notes for anti-GRIP1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GRIP1 antibody	MBS6174645 is an antibody targeting GRIP1. Also known as GRIP1 (Glutamate Receptor Interacting Protein 1, GRIP) (Biotin). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant GRIP1.

Other Notes	Small volumes of anti-GRIP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-GRIP1 antibody
Detection limit for recombinant GST tagged GRIP1 is 0.1 ng/ml as a capture antibody.



Western Blot (WB) of anti-GRIP1 antibody
GRIP1 monoclonal antibody (M05), clone 4A9. Western Blot analysis of GRIP1 expression in K-562.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRIP1. It may not necessarily be applicable to this product.

NCBI GI #	51471092
NCBI GeneID	23426
NCBI Accession #	XP_290559
UniProt Primary Accession #	Q9Y3R0
UniProt Secondary Accession #	Q1RLM0; C9JT59
UniProt Related Accession #	Q9Y3R0
GenBank Nucleotide #	XM_290559.6
NCBI Official Synonym Full Names	glutamate receptor interacting protein 1
NCBI Official Symbol	GRIP1
NCBI Official Synonym Symbols	GRIP; FRASRS3
UniProt Protein Name	Glutamate receptor-interacting protein 1
Protein Family	Glutamate receptor-interacting protein
UniProt Gene Name	GRIP1
UniProt Synonym Gene Names	GRIP-1
UniProt Entry Name	GRIP1_HUMAN
NCBI Protein Information	glutamate receptor-interacting protein 1
NCBI Summary for GRIP1	This gene encodes a member of the glutamate receptor interacting protein family. The encoded scaffold protein binds to and mediates the trafficking and membrane organization of a number of transmembrane proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, May 2010]

UniProt Comments for GRIP1	GRIP1: a scaffold protein for the assembly of a multiprotein signaling complex and as mediator of the trafficking of its binding partners at specific locations in neurons. Interacts with EphA7, EphB2, KIF5A, -B, -C, GluR2, -3, GRIPAP1, liprin A1, PPFIA4, FRAS1, and PTPRF. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 12q14.3 Cellular Component: postsynaptic membrane; recycling endosome; neuron projection; endoplasmic reticulum; dendrite; cytoplasmic membrane-bound vesicle; plasma membrane; cytosol; cell junction; lipid raft Molecular Function: protein C-terminus binding; protein binding; receptor signaling complex scaffold activity; androgen receptor binding; transcription coactivator activity; beta-catenin binding; glucocorticoid receptor binding Biological Process: synaptic transmission; protein localization; positive regulation of transcription, DNA-dependent; androgen receptor signaling pathway; dendrite development Disease: Fraser Syndrome
Research Articles on GRIP1	**1.** GRIP1 is phosphorylated at an N-terminal serine cluster by cyclin-dependent kinase-9 (CDK9), which is recruited into GC-induced GR:GRIP1:CDK9 hetero-complexes, producing distinct GRE-specific GRIP1 phospho-isoforms.
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