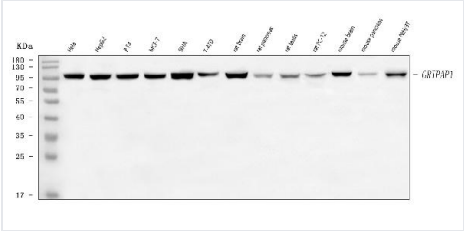
GRASP1/GRIPAP1 (GRIPAP1) Antibody – Rabbit Polyclonal

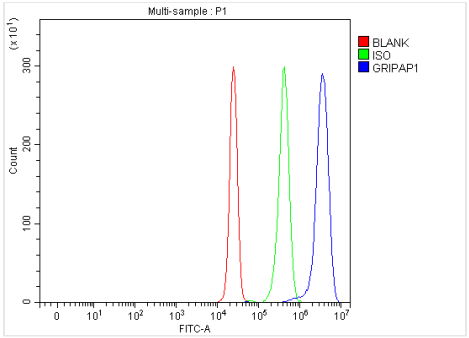
PRODUCT OVERVIEW

Product Name	GRASP1/GRIPAP1, Polyclonal Antibody
Full Product Name	Anti-GRASP1/GRIPAP1 Antibody Picoband
Product Gene Name	anti-GRIPAP1 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	92,738 Da
OMIM	300408
3D Structure	ModBase 3D Structure for Q4V328
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human GRASP1/GRIPAP1 recombinant protein (Position: R42-S841).
Product Categories/Family for anti-GRIPAP1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-GRIPAP1 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-GRIPAP1 antibody	WB: 0.1-0.25 ug/ml, Human, Mouse, Rat FC/FACS: 1-3 ug/1x10^6 cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.
Related Product Information for anti-GRIPAP1 antibody	GRIP1-associated protein 1 is a protein that in humans is encoded by the GRIPAP1 gene. This gene encodes a guanine nucleotide exchange factor for the Ras family of small G proteins (RasGEF). The encoded protein interacts in a complex with glutamate receptor interacting protein 1 (GRIP1) and plays a role in the regulation of AMPA receptor function.
Other Notes	Small volumes of anti-GRIPAP1 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.
Searchable Terms for GRIPAP1 purchase	MBS1755839 is an antibody targeting GRIPAP1. Also known as Anti-GRASP1/GRIPAP1 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-GRIPAP1 antibody

Figure 1. Western blot analysis of GRASP1/GRIPAP1 using anti-GRASP1/GRIPAP1 antibody (MBS1755839).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: huamn HepG2 whole cell lysates,Lane 3: human RT4 whole cell lysates,Lane 4: human MCF-7 whole cell lysates,Lane 5: human SiHa whole cell lysates,Lane 6: human T-47D whole cell lysates,Lane 7: rat brain tissue lysates,Lane 8: rat panceras tissue lysates,Lane 9: rat testis tissue lysates,Lane 10: rat PC-12 whole cell lysates,Lane 11: mouse brain tissue lysates,Lane 12: mouse pancreas tissue lysates,Lane 13: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GRASP1/GRIPAP1 antigen affinity purified polyclonal antibody (#MBS1755839) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GRASP1/GRIPAP1 at approximately 96 kDa. The expected band size for GRASP1/GRIPAP1 is at 96 kDa.



Flow Cytometry (FC/FACS) of anti-GRIPAP1 antibody

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-GRASP1/GRIPAP1 antibody (MBS1755839).Overlay histogram showing HepG2 cells stained with MBS1755839 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GRASP1/GRIPAP1 Antibody (MBS1755839, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRIPAP1. It may not necessarily be applicable to this product.

NCBI GI #	46592991
NCBI GeneID	56850
NCBI Accession #	NP_064522.3
UniProt Primary Accession #	Q4V328
UniProt Secondary Accession #	Q3MJ75; Q4V327; Q4V330; Q5HYG1; Q6N046; Q96DH8; Q9NQ43; Q9ULQ3; A6NL78
UniProt Related Accession #	Q4V328
GenBank Nucleotide #	NM_020137.4
NCBI Official Full Name	GRIP1-associated protein 1
NCBI Official Synonym Full Names	GRIP1 associated protein 1
NCBI Official Symbol	GRIPAP1
NCBI Official Synonym Symbols	GRASP-1
UniProt Protein Name	GRIP1-associated protein 1
Protein Family	GRIP1-associated protein
UniProt Gene Name	GRIPAP1
UniProt Synonym Gene Names	KIAA1167; GRASP-1
UniProt Entry Name	GRAP1_HUMAN
NCBI Protein Information	GRIP1-associated protein 1
NCBI Summary for GRIPAP1	This gene encodes a guanine nucleotide exchange factor for the Ras family of small G proteins (RasGEF). The encoded protein interacts in a complex with glutamate receptor interacting protein 1 (GRIP1) and plays a role in the regulation of AMPA receptor function. [provided by RefSeq, Aug 2013]

UniProt Comments for GRIPAP1	GRIPAP1: a guanine nucleotide exchange factor for the Ras family of small G proteins (RasGEF). In brain studies, the encoded protein was found with the GRIP/AMPA receptor complex. Multiple alternatively spliced transcript variants have been described that encode different protein isoforms; however, the full-length nature and biological validity of all of these variants have not been determined.[provided by RefSeq, Nov 2009] Protein type: GEFs, Ras; GEFs Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: early endosome
Research Articles on GRIPAP1	**1.** Results suggest that GRASP-1 serves as a scaffold protein to facilitate MEKK-1 activation of JNK signaling in neurons.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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