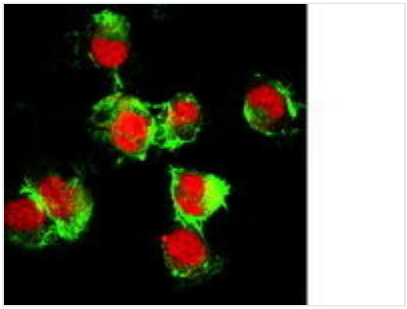
PRG4 Antibody – Rabbit Polyclonal

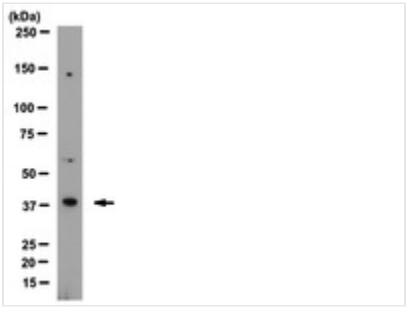
PRODUCT OVERVIEW

Product Name	PRG4, Polyclonal Antibody
Full Product Name	PRG4 (Proteoglycan 4) (FITC)
Product Gene Name	anti-PRG4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes PRG4, ~37kD. Species Crossreactivity: mouse
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. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	36,880 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (11466062..11476374). Location: 19p13.2
3D Structure	ModBase 3D Structure for Q96GM1
Immunogen	Synthetic peptide corresponding to human PRG4 from C-terminal, conjugated to KLH. Species sequence homology: rat, human, primate and equine
Conjugate	FITC
Positive Control	Mouse Brain lysates
Note	Preservative Free
Product Categories/Family for anti-PRG4 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-PRG4 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-PRG4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PRG4 antibody	PRG4, Proteoglycan 4, is a human gene and is found in synovial tissue, cartilage, and liver. Small amounts are found in the lung. Isoform 1 is found in the kidney, lung, liver, heart and brain. The other Isoforms, C & D, are widely expressed. PRG4 is a lubricating glycoprotein containing chondroitin sulfate and keratan sulfate glycosaminoglycans. It is responsible for boundary lubrication at the cartilage surface. A disease associated with PRG4 is Jacobs's syndrome which is an autosomal recessive disorder.
Product References and Citations for anti-PRG4 antibody	1. Sah, L, et al., (2006). Tissue Engineering. 12(6): 1429-1439.

Other Notes	Small volumes of anti-PRG4 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 PRG4 purchase	MBS6494273 is an antibody targeting PRG4. Also known as PRG4 (Proteoglycan 4) (FITC). Reactive in Mouse. Host: Rabbit.



Immunocytochemistry (ICC) of anti-PRG4 antibody
Immunocytochemistry: Confocal IF analysis of N1E-115 using MBS620132 (1:500) (Red). Actin filaments have been labeled with Alexa Fluor 488-Phalloidin (Green). Nuclear is stained with DAPI (Blue).



Testing Data of anti-PRG4 antibody
Mouse brain (e13-14) tissue lysate was resolved by electrophoresis, transferred to PVDF and probed with MBS620132 (1:2000). Proteins were visualized using an IgG (HRP) donkey anti-rabbit and a chemiluminescence detection system. Arrow indicates PRG4 (37kD)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRG4. It may not necessarily be applicable to this product.

NCBI GI #	282400944
NCBI GeneID	64748
NCBI Accession #	NP_001164106.1
UniProt Primary Accession #	Q96GM1
UniProt Secondary Accession #	Q5CZ76; Q8N1U4; Q9H929
UniProt Related Accession #	Q96GM1
GenBank Nucleotide #	NM_001127708.1
NCBI Official Full Name	lipid phosphate phosphatase-related protein type 2 isoform 2
NCBI Official Symbol	LPPR2
NCBI Official Synonym Symbols	PRG4
UniProt Protein Name	Lipid phosphate phosphatase-related protein type 2
UniProt Synonym Protein Names	Plasticity-related gene 4 protein
Protein Family	Proteoglycan
UniProt Gene Name	LPPR2
UniProt Synonym Gene Names	PRG4; PRG-4
UniProt Entry Name	LPPR2_HUMAN
NCBI Protein Information	lipid phosphate phosphatase-related protein type 2; PRG-4; plasticity related gene 4; plasticity-related gene 4 protein

UniProt Comments for PRG4	Catalytic activity: A 1,2-diacylglycerol 3-phosphate + H2O = a 1,2-diacyl-sn-glycerol + phosphate. Subcellular location: Membrane; Multi-pass membrane protein Potential. Sequence similarities: Belongs to the PA-phosphatase related phosphoesterase family.
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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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