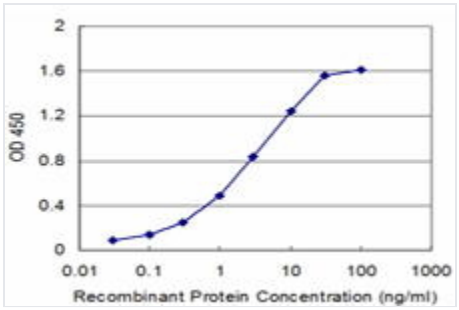
PTGIR Antibody – Mouse Monoclonal

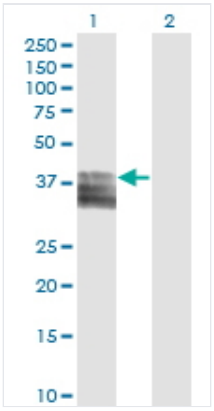
PRODUCT OVERVIEW

Product Name	PTGIR, Monoclonal Antibody
Full Product Name	PTGIR (Prostaglandin I2 (prostacyclin) Receptor (IP), IP, MGC102830, PRIPR) (APC)
Product Gene Name	anti-PTGIR antibody
Product Synonym Names	Prostaglandin I2 (prostacyclin) Receptor (IP); IP; MGC102830; PRIPR
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2A7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes PTGIR.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42kDa
OMIM	600022
3D Structure	ModBase 3D Structure for P43119
Immunogen	PTGIR (NP_000951, 296aa-386aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RKAVFQRLKLWVCCLCLGPAHGDSQTPLSQLASGRRDPRAPSAPVGKEGSCVPLSAWGEGQVEPLPPTQQSSGSAVGTSSKAEASVACSLC
Conjugate	APC
Product Categories/Family for anti-PTGIR antibody	Antibodies; Prostaglandins
Applications Tested/Suitable for anti-PTGIR antibody	Western Blot (WB)
Application Notes for anti-PTGIR antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PTGIR antibody	The protein encoded by this gene is a member of the G-protein coupled receptor family 1 and has been shown to be a receptor for prostacyclin. Prostacyclin, the major product of cyclooxygenase in macrovascular endothelium, elicits a potent vasodilation and inhibition of platelet aggregation through binding to this receptor. [provided by RefSeq]

Other Notes	Small volumes of anti-PTGIR 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 PTGIR purchase	MBS6168441 is an antibody targeting PTGIR. Also known as PTGIR (Prostaglandin I2 (prostacyclin) Receptor (IP), IP, MGC102830, PRIPR) (APC). Host: Mouse.



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



Western Blot (WB) of anti-PTGIR antibody
Western Blot analysis of PTGIR expression in transfected 293T cell line by PTGIR monoclonal antibody (M02), clone 2A7.Lane 1: PTGIR transfected lysate(41 KDa).Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	4506263
NCBI GeneID	5739
NCBI Accession #	NP_000951
UniProt Primary Accession #	P43119
UniProt Related Accession #	P43119
GenBank Nucleotide #	NM_000960.4
NCBI Official Full Name	prostacyclin receptor
NCBI Official Synonym Full Names	prostaglandin I2 receptor
NCBI Official Symbol	PTGIR
NCBI Official Synonym Symbols	IP; PRIPR
UniProt Protein Name	Prostacyclin receptor
UniProt Synonym Protein Names	Prostaglandin I2 receptor; PGI receptor; PGI2 receptor; Prostanoid IP receptor
Protein Family	Prostacyclin receptor
UniProt Gene Name	PTGIR
UniProt Synonym Gene Names	PRIPR; PGI receptor
UniProt Entry Name	PI2R_HUMAN
NCBI Protein Information	prostacyclin receptor

UniProt Comments for PTGIR	PTGIR: Receptor for prostacyclin (prostaglandin I2 or PGI2). The activity of this receptor is mediated by G(s) proteins which activate adenylate cyclase. Belongs to the G-protein coupled receptor 1 family. Protein type: Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: integral to plasma membrane; plasma membrane; cytosol Molecular Function: G-protein coupled receptor activity; guanyl-nucleotide exchange factor activity Biological Process: G-protein signaling, coupled to cyclic nucleotide second messenger; cell-cell signaling; negative regulation of smooth muscle cell proliferation; positive regulation of cAMP biosynthetic process; response to lipopolysaccharide; blood coagulation; G-protein signaling, adenylate cyclase activating pathway; positive regulation of GTPase activity
Research Articles on PTGIR	**1.** these studies are not only the first to identify alpha4 helix of Rab11a as a protein binding domain on the GTPase but also reveal novel mechanistic insights into the intracellular trafficking of the human prostacyclin receptor (hIP), and potentially of other members of the GPCR superfamily, involving Rab11-dependent mechanisms.
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