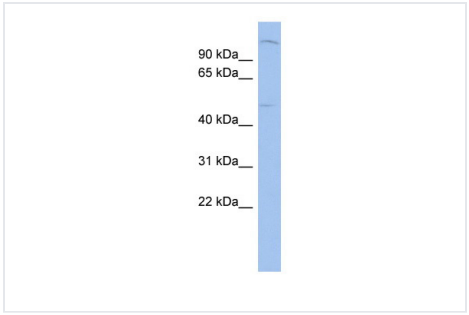
PTGER3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTGER3, Polyclonal Antibody
Full Product Name	PTGER3 antibody - middle region
Product Gene Name	anti-PTGER3 antibody
Product Synonym Gene Name	EP3; EP3-I; EP3-II; EP3-III; EP3-IV; EP3e; MGC141828; MGC141829; MGC27302; PGE2-R
Immunogen Sequence	Synthetic peptide located within the following region: STVIDPSRFC AQPFRWFLDL SFPAMSSSHP QLPLTLASFK LLREPCSVQL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	PTGER3 peptide (MBS3226862) is used for blocking the activity of PTGER3 antibody (MBS3201861)
Molecular Weight	47kDa
OMIM	176806
3D Structure	ModBase 3D Structure for P43115
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human PTGER3
Product Categories/Family for anti-PTGER3 antibody	Polyclonal; Membrane Protein; Transcription Regulation; DNA/RNA/Protein Interactions; Receptors; GPCR; Transcription Factors
Applications Tested/Suitable for anti-PTGER3 antibody	Western Blot (WB)
Related Product Information for anti-PTGER3 antibody	This is a rabbit polyclonal antibody against PTGER3. It was validated on Western Blot using a cell lysate as a positive control. Target Description: PTGER3 is the receptor for prostaglandin E2 (PGE2); the EP3 receptor may be involved in inhibition of gastric acid secretion, modulation of neurotransmitter release in central and peripheral neurons, inhibition of sodium and water reabsorption in kidney tubulus and contraction in uterine smooth muscle. The activity of this receptor can couple to both the inhibition of adenylate cyclase mediated by G-I proteins, and to an elevation of intracellular calcium. The various isoforms have identical ligand binding properties but can interact with different second messenger systems.The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor may have many biological functions, which involve digestion, nervous system, kidney reabsorption, and uterine contraction activities. Studies of the mouse counterpart suggest that this receptor may also mediate adrenocorticotropic hormone response as well as fever generation in response to exogenous and endogenous stimuli. Multiple alternatively spliced transcript variants encoding eight distinct isoforms have been reported.
Other Notes	Small volumes of anti-PTGER3 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 PTGER3 purchase	MBS3201861 is an antibody targeting PTGER3. Also known as PTGER3 antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PTGER3 antibody
WB Suggested Anti-PTGER3 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:12500Positive Control: COLO205 cell lysateThere is BioGPS gene expression data showing that PTGER3 is expressed in COLO205

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTGER3. It may not necessarily be applicable to this product.

NCBI GI #	38505172
NCBI GeneID	5733
NCBI Accession #	NP_000948
UniProt Primary Accession #	P43115
UniProt Related Accession #	P43115
GenBank Nucleotide #	NM_000957
NCBI Official Synonym Full Names	prostaglandin E receptor 3
NCBI Official Symbol	PTGER3
NCBI Official Synonym Symbols	EP3; EP3e; EP3-I; EP3-II; EP3-IV; EP3-VI; PGE2-R; EP3-III
UniProt Protein Name	Prostaglandin E2 receptor EP3 subtype
UniProt Synonym Protein Names	PGE2-R; Prostanoid EP3 receptor
Protein Family	Prostaglandin E2 receptor
UniProt Gene Name	PTGER3
UniProt Synonym Gene Names	PGE receptor EP3 subtype
UniProt Entry Name	PE2R3_HUMAN
NCBI Protein Information	prostaglandin E2 receptor EP3 subtype
NCBI Summary for PTGER3	The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor may have many biological functions, which involve digestion, nervous system, kidney reabsorption, and uterine contraction activities. Studies of the mouse counterpart suggest that this receptor may also mediate adrenocorticotropic hormone response as well as fever generation in response to exogenous and endogenous stimuli. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]

UniProt Comments for PTGER3	PTGER3: Receptor for prostaglandin E2 (PGE2); the EP3 receptor may be involved in inhibition of gastric acid secretion, modulation of neurotransmitter release in central and peripheral neurons, inhibition of sodium and water reabsorption in kidney tubulus and contraction in uterine smooth muscle. The activity of this receptor can couple to both the inhibition of adenylate cyclase mediated by G-I proteins, and to an elevation of intracellular calcium. The various isoforms have identical ligand binding properties but can interact with different second messenger systems. Belongs to the G-protein coupled receptor 1 family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 1 Chromosomal Location of Human Ortholog: 1p31.2 Cellular Component: integral to plasma membrane; integral to membrane; plasma membrane; nuclear envelope Molecular Function: ligand-dependent nuclear receptor activity; prostaglandin E receptor activity Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger; cell death; G-protein coupled receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; intracellular receptor-mediated signaling pathway; transcription, DNA-dependent; bicarbonate transport; positive regulation of fever; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); response to lipopolysaccharide; fever
Research Articles on PTGER3	**1.** BRS-3 and EP3 interact to potentiate PGE2 signaling. This potentiating effect is receptor specific, and it occurs only when BRS-3 is paired to EP3.
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