

PTGER2/PTGER3 monoclonal antibody, clone 3F12

Catalog # MAB1977

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against recombinant PTGER2/PTGER3.
Immunogen	Recombinant protein corresponding to human PTGER2/PTGER3.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western blot (1 to 5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Gene Info — PTGER2

Entrez GeneID

[5732](#)

Gene Name	PTGER2
Gene Alias	EP2
Gene Description	prostaglandin E receptor 2 (subtype EP2), 53kDa
Omim ID	176804 208550
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	prostaglandin E receptor 2, EP2 subtype, 53kD

Gene Info — PTGER3

Entrez GeneID	5733
Gene Name	PTGER3
Gene Alias	EP3, EP3-I, EP3-II, EP3-III, EP3-IV, EP3e, MGC141828, MGC141829, MGC27302
Gene Description	prostaglandin E receptor 3 (subtype EP3)
Omim ID	176806
Gene Ontology	Hyperlink
Gene Summary	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 adrenocorticotrophic 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]
Other Designations	OTTHUMP00000011033 OTTHUMP00000011034 OTTHUMP00000011035 PGE receptor, EP3 subtype prostaglandin E receptor EP3 subtype 3 isoform prostaglandin E receptor 3, subtype EP3 prostaglandin E2 receptor prostaglandin receptor (PGE-2) prostanoid EP3 receptor

Publication Reference

- [Comparison of agonist-induced internalization of the human EP2 and EP4 prostaglandin receptors: role of the carboxyl terminus in EP4 receptor sequestration.](#)

Desai S, April H, Nwaneshiudu C, Ashby B.

Molecular Pharmacology 2000 Dec; 58(6):1279.

- [Immunolocalization of the four prostaglandin E2 receptor proteins EP1, EP2, EP3, and EP4 in human kidney.](#)

Morath R, Klein T, Seyberth HW, Nüsing RM.

Journal of the American Society of Nephrology 1999 Sep; 10(9):1851.

Application: IHC-Fr, WB-Ti, Human, Human kidneys

- [Immunocytochemical localization of prostaglandin EP3 receptor in the rat hypothalamus.](#)

Nakamura K, Kaneko T, Yamashita Y, Hasegawa H, Katoh H, Ichikawa A, Negishi M.

Neuroscience Letters 1999 Jan; 260(2):117.

Pathway

- [Calcium signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Adenoma](#)
- [Alzheimer disease](#)
- [Alzheimer disease](#)
- [Asthma](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Chorioamnionitis](#)

- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Edema](#)
- [Fetal Diseases](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Infection](#)
- [Infection](#)
- [Inflammation](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Metabolic Syndrome X](#)

- [Musculoskeletal Diseases](#)
- [Musculoskeletal Diseases](#)
- [Neoplasms](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Skin Diseases](#)
- [Skin Diseases](#)
- [Thrombosis](#)
- [Tobacco Use Disorder](#)