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EP3/PTGER3 Rabbit pAb

Catalog # AP96943

Product Information

Application	WB
Primary Accession	P30557
Other Accession	P30557
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40077
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse EP3
Epitope Specificity	51-150/390
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Other Names	EP3; EP3-I; EP3-II; EP3-III; EP3-IV; EP3-VI; EP3e; PGE2-R; lnc003875; Pgerep3; Ptgerep3; EP3R; Rep3; rEP3a; rEP3b; PE2R3_HUMAN; PTGER3; PGE receptor EP3 subtype; PGE2 receptor EP3 subtype; Prostanoid EP3 receptor; PE2R3_MOUSE; PE2R3_RAT; prostaglandin E receptor 3; prostaglandin E receptor 3 (subtype EP3)
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Ptger3
Synonyms	Ptgerep3
Function	Receptor for prostaglandin E2 (PGE2) (PubMed: 1372606, PubMed:8223569, PubMed:8381413). Required for normal development of fever in response to pyrinogens, including IL1B, prostaglandin E2 and bacterial lipopolysaccharide (LPS) (PubMed:9751056). Required for normal potentiation of platelet aggregation by prostaglandin E2, and thus plays a role in the regulation of blood coagulation (PubMed:11535576). Required for increased HCO3(-) secretion in the duodenum in response to mucosal acidification, and thereby contributes to the protection of the mucosa against acid-induced ulceration (PubMed:10535876). Not required for normal kidney function, normal urine volume and osmolality (PubMed:9843913).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in platelets (PubMed:11535576). Kidney, uterus, and mastocytoma cells, and in a lesser amount in brain, thymus, lung, heart, stomach and spleen (PubMed:1372606)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.