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EP3 Polyclonal Antibody

Catalog # AP69751

Product Information

Application	WB, IF
Primary Accession	P43115
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43310

Additional Information

Gene ID	5733
Other Names	PTGER3; Prostaglandin E2 receptor EP3 subtype; PGE receptor EP3 subtype; PGE2 receptor EP3 subtype; PGE2-R; Prostanoid EP3 receptor
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

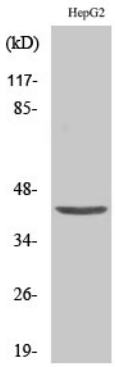
Name	PTGER3
Function	Receptor for prostaglandin E2 (PGE2) (PubMed: 7883006, PubMed:7981210, PubMed:8117308, PubMed:8135729, PubMed:8307176). The activity of this receptor can couple to both the inhibition of adenylate cyclase mediated by G(i) proteins, and to an elevation of intracellular calcium (PubMed:7883006, PubMed:7981210, PubMed:8117308, PubMed:8135729). Required for normal development of fever in response to pyrinogens, including IL1B, prostaglandin E2 and bacterial lipopolysaccharide (LPS). Required for normal potentiation of platelet aggregation by prostaglandin E2, and thus plays a role in the regulation of blood coagulation. 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. Not required for normal kidney function, normal urine volume and osmolality (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in kidney (PubMed:8117308, PubMed:8135729). Expressed in small

intestine, heart, pancreas, gastric fundic mucosa, mammary artery and pulmonary vessels

Background

Receptor for prostaglandin E2 (PGE2) (PubMed: 8307176, PubMed:7883006, PubMed:8117308, PubMed:8135729, PubMed:7981210). 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 (PubMed:7883006, PubMed:8117308, PubMed:8135729, PubMed:7981210). Required for normal development of fever in response to pyrinogens, including IL1B, prostaglandin E2 and bacterial lipopolysaccharide (LPS). Required for normal potentiation of platelet aggregation by prostaglandin E2, and thus plays a role in the regulation of blood coagulation. 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. Not required for normal kidney function, normal urine volume and osmolality (By similarity).

Images



Western Blot analysis of various cells using EP3 Polyclonal Antibody