10320 Camino Santa Fe, Suite G
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PTGER3 / EP3 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10228

Specification

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC**
Primary Accession	P43115
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Additional Information

Gene ID 5733

Other Names
Prostaglandin E2 receptor EP3 subtype, PGE receptor EP3 subtype, PGE2 receptor EP3 subtype, PGE2-R, Prostanoid EP3 receptor, PTGER3

Target/Specificity
Human PTGER3 / EP3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
PTGER3 / EP3 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Protein Information

Name PTGER3

Function
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:<a

href="http://www.uniprot.org/citations/7981210" target="_blank">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).

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

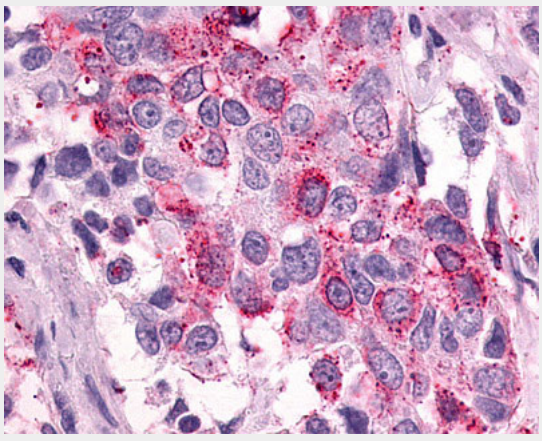
Volume
50 µl

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Protocols

Provided below are standard protocols that you may find useful for product applications.

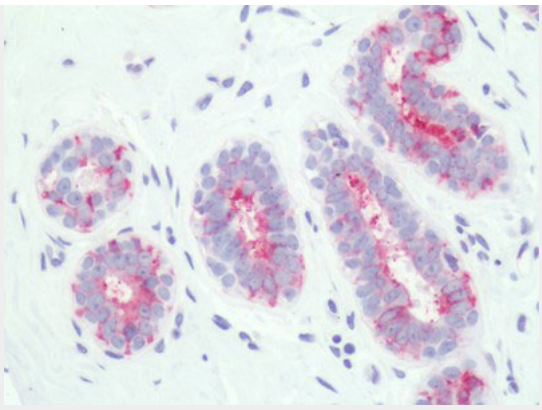
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Images

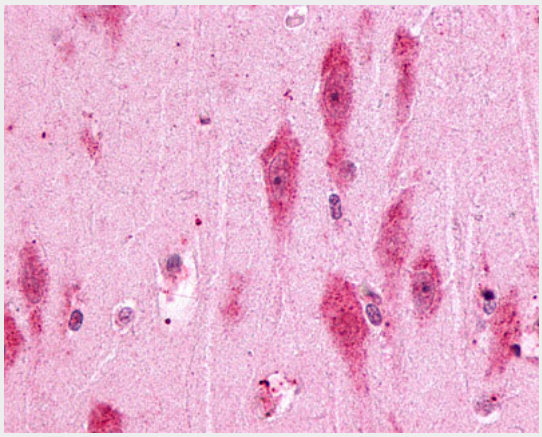


Anti-PTGER3 / EP3 antibody IHC of human Breast, Carcinoma.

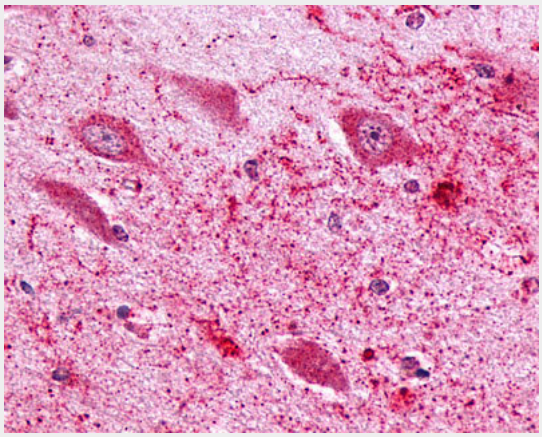
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Human, Breast: Formalin-Fixed Paraffin-Embedded (FFPE)

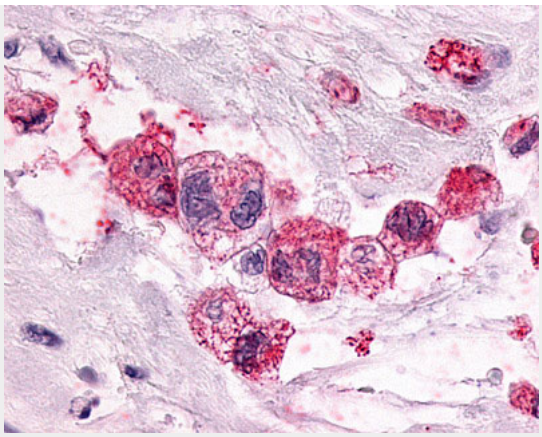


Anti-PTGER3 / EP3 antibody IHC of human brain, hippocampus.



Anti-PTGER3 / EP3 antibody IHC of human brain, hippocampus.

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Anti-PTGER3 / EP3 antibody IHC of human Pancreas, Carcinoma.

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Background

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 (By similarity).

PTGER3 / EP3 Antibody (Cytoplasmic Domain) - References

Adam M.,et al.FEBS Lett. 338:170-174(1994).
Schmid A.,et al.Eur. J. Biochem. 228:23-30(1995).
Yang J.,et al.Biochem. Biophys. Res. Commun. 198:999-1006(1994).
Kunapuli S.P.,et al.Biochem. J. 298:263-267(1994).
An S.,et al.Biochemistry 33:14496-14502(1994).