

**PTGER3 / EP3 Antibody (Cytoplasmic Domain)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10228****Specification**

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**PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P                  |
| Primary Accession | <a href="#">P43115</a> |
| Reactivity        | Human, Monkey          |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 43kDa KDa              |
| Dilution          | IHC-P~~N/A             |

**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:<a href="http://www.uniprot.org/citations/7883006" target="\_blank">7883006</a>, PubMed:<a href="http://www.uniprot.org/citations/7981210" target="\_blank">7981210</a>, PubMed:<a href="http://www.uniprot.org/citations/8117308" target="\_blank">8117308</a>, PubMed:<a href="http://www.uniprot.org/citations/8135729" target="\_blank">8135729</a>, PubMed:<a href="http://www.uniprot.org/citations/8307176" target="\_blank">8307176</a>). 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:<a href="http://www.uniprot.org/citations/7883006" target="\_blank">7883006</a>, PubMed:<a href="http://www.uniprot.org/citations/7981210" target="\_blank">7981210</a>, PubMed:<a href="http://www.uniprot.org/citations/8117308" target="\_blank">8117308</a>, PubMed:<a href="http://www.uniprot.org/citations/8135729" target="\_blank">8135729</a>, PubMed:<a href="http://www.uniprot.org/citations/8307176" target="\_blank">8307176</a>).

href="http://www.uniprot.org/citations/8117308" target="\_blank">8117308</a>, PubMed:<a href="http://www.uniprot.org/citations/8135729" target="\_blank">8135729</a>). 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 HCO<sub>3</sub>(-) 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

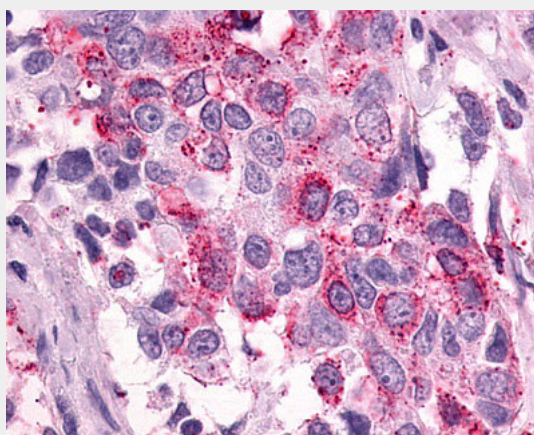
**Volume**

50 µl

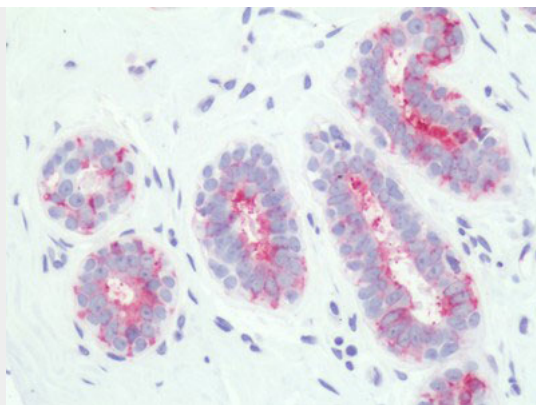
**PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Protocols**

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

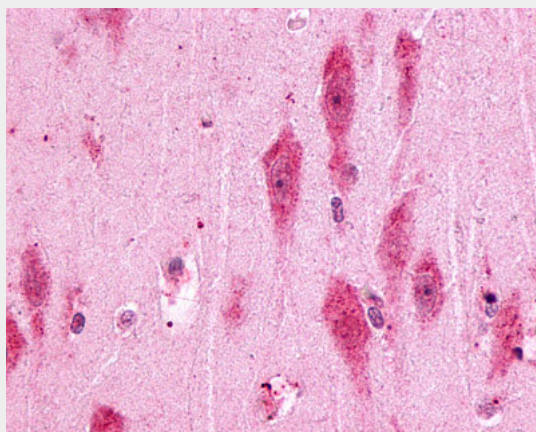
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PTGER3 / EP3 Antibody (Cytoplasmic Domain) - Images**

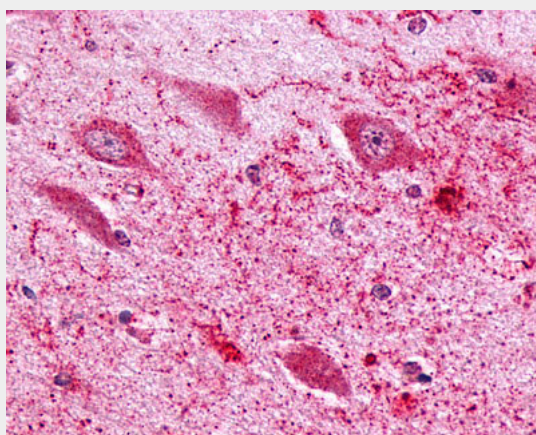
Anti-PTGER3 / EP3 antibody IHC of human Breast, Carcinoma.



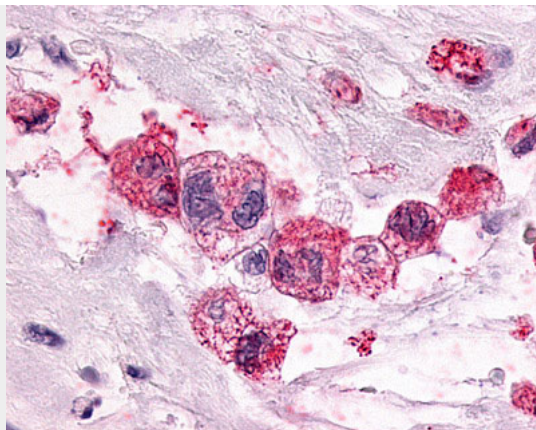
Human, Breast: Formalin-Fixed Paraffin-Embedded (FFPE)



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



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



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).