

PGE synthase Polyclonal Antibody
Catalog # AP71872**Specification****PGE synthase Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	O14684
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

PGE synthase Polyclonal Antibody - Additional Information**Gene ID** 9536**Other Names**

PTGES; MGST1L1; MPGES1; PGES; PIG12; Prostaglandin E synthase; Microsomal glutathione S-transferase 1-like 1; MGST1-L1; Microsomal prostaglandin E synthase 1; MPGES-1; p53-induced gene 12 protein

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

PGE synthase Polyclonal Antibody - Protein Information**Name** PTGES**Function**

Terminal enzyme of the cyclooxygenase (COX)-2-mediated prostaglandin E2 (PGE2) biosynthetic pathway. Catalyzes the glutathione-dependent oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) in response to inflammatory stimuli (PubMed:10377395, PubMed:10869354, PubMed:12244105, PubMed:12460774, PubMed:12672824, PubMed:18682561). Plays a key role in inflammation response, fever and pain (By similarity). Also catalyzes the oxidoreduction of endocannabinoids into prostaglandin glycerol esters and PGG2 into 15-hydroperoxy-PGE2 (PubMed:12244105, PubMed:12672824). In addition, displays low glutathione transferase and glutathione- dependent peroxidase activities,

toward 1-chloro-2,4-dinitrobenzene and 5-hydroperoxyicosatetraenoic acid (5-HPETE), respectively (PubMed:12672824).

Cellular Location

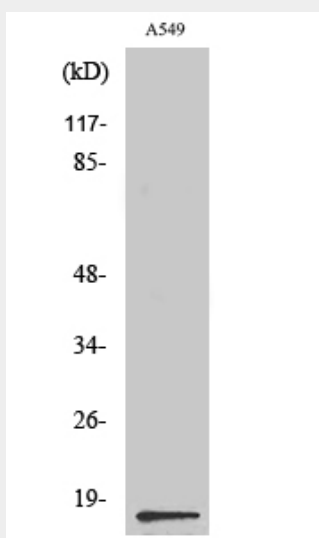
Membrane; Multi-pass membrane protein. Cytoplasm, perinuclear region. Note=Colocalizes with PTGS1/COX-1 and PTGS2/COX-2 in the perinuclear compartment

PGE synthase Polyclonal Antibody - Protocols

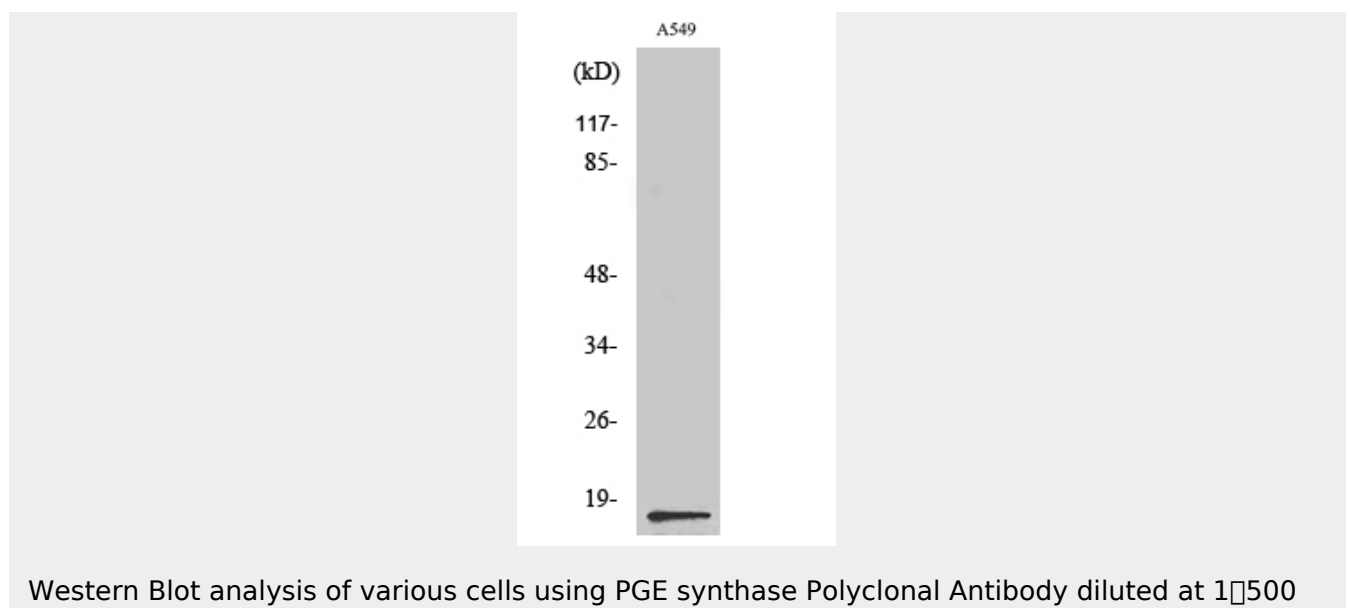
Provided below are standard protocols that you may find useful for product applications.

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

PGE synthase Polyclonal Antibody - Images



Western Blot analysis of various cells using PGE synthase Polyclonal Antibody diluted at 1:500



PGE synthase Polyclonal Antibody - Background

Catalyzes the oxidoreduction of prostaglandin endoperoxide H₂ (PGH₂) to prostaglandin E₂ (PGE₂).