

PGES / PTGES Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS11031**Specification****PGES / PTGES Antibody (Cytoplasmic Domain) - Product Information**

Application	IHC-P
Primary Accession	O14684
Reactivity	Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17kDa KDa
Dilution	IHC-P~~N/A

PGES / PTGES Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 9536**Other Names**

Prostaglandin E synthase, 5.3.99.3, Microsomal glutathione S-transferase 1-like 1, MGST1-L1, Microsomal prostaglandin E synthase 1, MPGES-1, p53-induced gene 12 protein, PTGES, MGST1L1, MPGES1, PGES, PIG12

Target/Specificity

Human PTGES. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

PGES / PTGES Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

PGES / PTGES Antibody (Cytoplasmic Domain) - 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

Volume

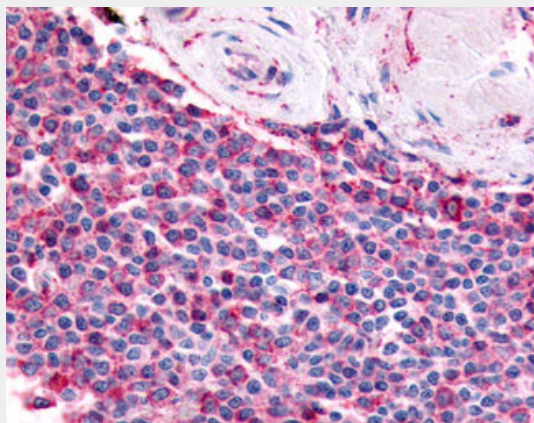
100 µl

PGES / PTGES Antibody (Cytoplasmic Domain) - Protocols

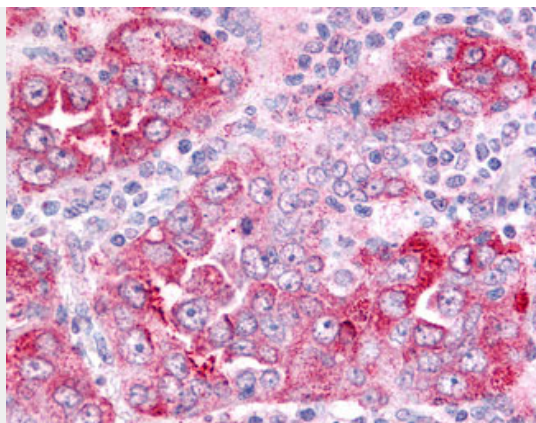
Provided below are standard protocols that you may find useful for product applications.

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

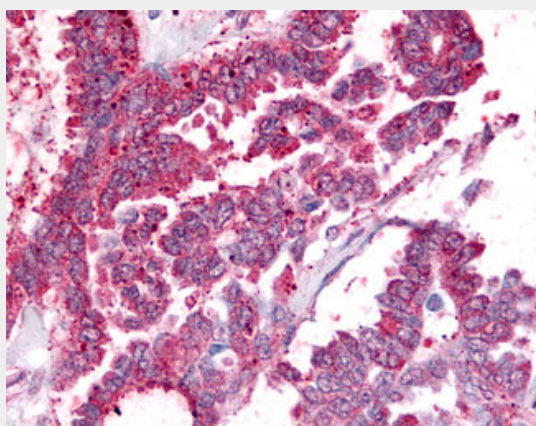
PGES / PTGES Antibody (Cytoplasmic Domain) - Images



Anti-PGES / PTGES antibody IHC of human spleen.



Anti-PGES / PTGES antibody IHC of human Lung, Non-Small Cell Carcinoma.



Anti-PGES / PTGES antibody IHC of human Ovary, Carcinoma.

PGES / PTGES Antibody (Cytoplasmic Domain) - Background

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

PGES / PTGES Antibody (Cytoplasmic Domain) - References

- Polyak K., et al. Nature 389:300-306(1997).
Jakobsson P.-J., et al. Proc. Natl. Acad. Sci. U.S.A. 96:7220-7225(1999).
Forsberg L., et al. FEBS Lett. 471:78-82(2000).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Humphray S.J., et al. Nature 429:369-374(2004).