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PRODUCT INFORMATION



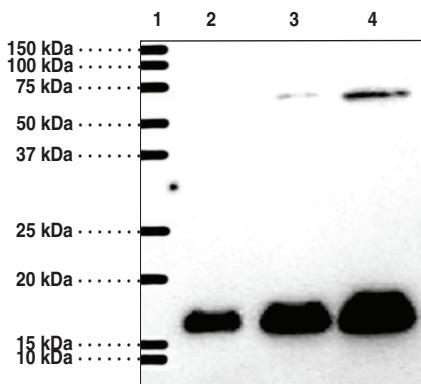
Prostaglandin E Synthase-1 (microsomal) Polyclonal Antibody

Item No. 160140

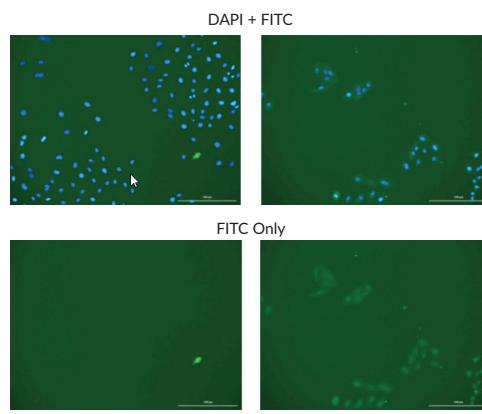
Overview and Properties

Contents:	This vial contains 500 µl of peptide-affinity purified polyclonal antibody.
Synonyms:	Membrane-Associated PGES-1, MGST1-L1, mPGES-1, mPGE Synthase-1, PIG12, Prostaglandin H/E Isomerase
Immunogen:	Peptide from an internal region of human mPGES-1
Species Reactivity:	(+) Human, mouse, ovine, and rat; other species not tested
Uniprot No.:	O14684
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Host:	Rabbit
Storage Buffer:	PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide
Application:	Immunofluorescence (IF), Western blot (WB); the recommended starting dilution for is 1:200. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images



Lane 1: Precision Plus Protein Standard
Lane 2: Ram Seminal Vesicles (2 µg)
Lane 3: Ram Seminal Vesicles (5 µg)
Lane 4: Ram Seminal Vesicles (10 µg)



Immunofluorescence analysis of paraformaldehyde-fixed, A549 cells. After incubation with Prostaglandin E Synthase-1 (microsomal) Polyclonal Antibody (Item No. 160140), at a 1:200 dilution (or negative control) cells were incubated with FITC labeled anti-rabbit IgG (Item No. 10006588), followed by DAPI nuclear stain. Images show FITC alone or both fluorescence channels to highlight nuclear staining (where applicable).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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PRODUCT INFORMATION



Description

Prostaglandin E Synthase-1 (PGES-1) catalyzes the isomerization of PGH₂ (Item No. 17020) to PGE₂ (Item No. 14010). PGE₂ is one of the primary COX products of arachidonic acid (item No. 90010) and one of the most widely investigated PGs. Its activity influences inflammation, fertility and parturition, gastric mucosal integrity, and immune modulation.¹⁻⁴ PGES-1 is a 16 kDa membrane-associated protein with glutathione-dependent activity.⁵ The mRNA for PGES-1 is expressed in a variety of tissues including prostate, testes, and small intestine, as well as in A549 and HeLa cells.⁵ PGES-1 protein expression is increased in A549 cells following treatment with IL-1β.⁵

References

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2. Jackson, G.M., Sharp, H.T., and Varner, M.W. Cervical ripening before induction of labor: A randomized trial of prostaglandin E₂ gel versus low-dose oxytocin. *Am. J. Obstet. Gynecol.* **171**(4), 1092-1096 (1994).
3. Robert, A., Schultz, J.R., Nezamis, J.E., et al. Gastric antisecretory and antiulcer properties of PGE₂, 15-methyl PGE₂, and 16,16-dimethyl PGE₂. Intravenous, oral and intrajejunal administration. *Gastroenterology* **70**(3), 359-370 (1976).
4. Arvind, P., Papavassiliou, E.D., Tsoulas, G.J., et al. Prostaglandin E₂ down-regulates the expression of HLA-DR antigen in human colon adenocarcinoma cell lines. *Biochemistry* **34**(16), 5604-5609 (1995).
5. Jakobsson, P.-J., Thorén, S., Morgenstern, R., et al. Identification of human prostaglandin E synthase: A microsomal, glutathione-dependent, inducible enzyme, constituting a potential novel drug target. *Proc. Natl. Acad. Sci. USA* **96**(13), 7220-7225 (1999).