PRODUCT INFORMATION

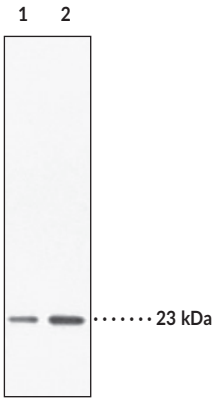
Prostaglandin E Synthase (cytosolic, FL) Polyclonal Antibody

Item No. 10209

Overview and Properties

Contents:	This vial contains 500 µl of affinity-purified polyclonal antibody.
Synonyms:	cPGES, cPGE Synthase, Hsp90 Co-chaperone, p23, Teolomerate-binding protein p23
Immunogen:	Full-length, human recombinant cytosolic prostaglandin E synthase
Cross Reactivity:	(-) Micosomal PGE synthases 1 and 2
Species Reactivity:	(+) Human; other species not tested
Uniprot No.:	Q15185
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Storage Buffer:	PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide
Host:	Rabbit
Applications:	Immunocytochemistry (ICC) and Western blot (WB); the recommended starting dilution for ICC is 1:20 and 1:200 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image



Lane 1: Recombinant p23 protein (pure) (0.01 µg)
Lane 2: Recombinant p23 protein (pure) (0.02 µg)

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
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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Description

Cytosolic PGE synthase (cPGES) is a glutathione-dependent enzyme with a predicted size of 18.6 kDa (23 kDa on SDS-PAGE). The enzyme is expressed in a wide variety of tissues and cells, the levels of which are unaffected by treatment with IL-1b and TNFa.[1] However, enzyme expression increases approximately 3-fold in rat brain following LPS treatment.[1] Microsomal PGE synthase (mPGES) is a 16 kDa protein expressed in a variety of tissues.[2] In contrast to cPGES, mPGES protein expression is increases in A549 cells following treatment with IL-1b.[2] The two enzymes show <10% homology at the amino acid level.

References

1. Tanioka, T., Nakatani, Y., Semmyo, N., *et al.* Molecular identification of cytosolic prostaglandin E_2 synthase that is functionally coupled with cyclooxygenase-1 immediate prostaglandin E_2 biosynthesis. *J. Biol. Chem.* **275(42)**, 32775-32782 (2000).
2. 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).

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