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Product no AS03 031

mPGES-1 glutathione dependent prostaglandin E synthase

Product information

Background	**mPGES-1** is an inducible glutathione dependent prostaglandin E synthase that converts cyclooxygenase derived PGH2 into PGE2.
Immunogen	Recombinant human purified 6-His mPGES-1 O14684
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 50 µl of sterile water.
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Tested applications	Immunohistochemistry (IHC), Western blot (WB)
Related products	AS03 031S | mPGES-1 glutathione dependent prostaglandin E synthase protein | positive control Secondary antibodies
Additional information	In our hands this antibody works with fresh frozen sections not in paraffin embeded material in IHCmPGES-1 antibody was characterized using spleen tissue from LPS-induced mPGES-1 knock-out and wild type mice. In spleen tissue from wt mice we observed strong positive staining in macrophage-like cells, while there was no staining for mPGES-1 in ko mice.

Application information

Recommended dilution	1 : 10 000, human and rat samples (WB) 1 :6 000 on mice samples and in sheep seminal vesicles (IHC)
Expected | apparent MW	17 kDa
Confirmed reactivity	Human, Mouse, Rat, sheep
Predicted reactivity	Dog, Hamster, Horse
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Additional information	Antibody is only recognizing mPGES1 not mPGES2 or cPGES. **Contains 0.1% ProClin.**For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	Lio et al. (2019). Nardosinanone N suppresses LPS-induced macrophage activation by modulating the Nrf2 pathway and mPGES-1. Biochemical Pharmacology Sept 2019, 113639. Tuure et al. (2019). Downregulation of microsomal prostaglandin E synthase-1 (mPGES-1) expression in chondrocytes is regulated by MAP kinase phosphatase-1 (MKP-1). Int Immunopharmacol. 2019 Mar 18;71:139-143. doi: 10.1016/j.intimp.2019.03.014. Gargouri et al. (2018: Anti-neuroinflammatory effects of Ginkgo biloba extract EGb761 in LPS-activated primary microglial cells. Phytomedicine, doi.org/10.1016/j.phymed.2018.04.009 Tuure et al. (2017). PDE4 inhibitor rolipram inhibits the expression of microsomal prostaglandin E synthase-1 by a mechanism dependent on MAP kinase phosphatase-1. Pharmacol Res Perspect. 2017 Dec;5(6). doi: 10.1002/prp2.363. Pharmacol Res Perspect. 2017 Dec;5(6). doi: 10.1002/prp2.363. Kern et al. (2017). CD200 selectively upregulates prostaglandin E2 and D2 synthesis in LPS-treated bone marrow-derived macrophages. Prostaglandins Other Lipid Mediat. 2017 Jun 3. pii: S1098-8823(17)30010-2. doi:

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Tuure et al. (2014). Aurothiomalate inhibits the expression of mPGES-1 in primary human chondrocytes. Scand J Rheumatol. 2014 Oct 14:1-6.
Olajide et al. (2014). Picralima nitida seeds suppress PGE2 production by interfering with multiple signalling pathways in IL-1 -stimulated SK-N-SH neuronal cells. J Ethnopharmacol. 2014 Jan 31. pii: S0378-8741(14)00074-9. doi: 10.1016/j.jep.2014.01.027.

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