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 Q14684

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

Additional information
In our hands this antibody works with fresh frozen sections not in paraffin embedded material in IHC. 
mPGES-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.

Selected references

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.


