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Goat anti-PTGES2 (aa292-306) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4439a

Product Information

Application	WB, IHC, Pep-ELISA
Primary Accession	Q9H7Z7
Other Accession	NP_079348.1, NP_945176.1
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Clone Names	PTGES2
Calculated MW	41943

Additional Information

Gene ID	80142
Other Names	PTGES2; prostaglandin E synthase 2; C9orf15; GBF-1; GBF1; PGES2; mPGES-2; GATE-binding factor 1; gamma-interferon-activated transcriptional element-binding factor 1; membrane-associated prostaglandin E synthase 2; microsomal prostaglandin E synthase-2
Dilution	WB~~1:1000 IHC~~1:100~500 Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	This antibody is expected to recognize both reported isoforms (NP_079348.1; NP_945176.1). Reported variants represent identical protein: NP_001243264.1, NP_945176.1.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-PTGES2 (aa292-306) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTGES2
Synonyms	C9orf15, PGES2
	Isomerase that catalyzes the conversion of PGH2 into the more stable

Function	prostaglandin E2 (PGE2) (in vitro) (PubMed:12804604, PubMed:17585783, PubMed:18198127). The biological function and the GSH- dependent property of PTGES2 is still under debate (PubMed:17585783, PubMed:18198127). In vivo, PTGES2 could form a complex with GSH and heme and would not participate in PGE2 synthesis but would catalyze the degradation of prostaglandin E2 H2 (PGH2) to 12(S)-hydroxy-5(Z),8(E),10(E)-heptadecatrienoic acid (HHT) and malondialdehyde (MDA) (By similarity) (PubMed:17585783).
Cellular Location	Golgi apparatus membrane; Single-pass membrane protein
Tissue Location	Widely expressed. Expressed in the heart, including apex, inter-ventricular septum, both atria and ventricles, but not in the aorta. Also expressed in fetal heart. Detected in various regions of the brain: cerebellum; occipital, frontal and parietal lobes. Also expressed in the lymph nodes, skeletal muscle, kidney and trachea, but not in the thymus or lung. Overexpressed in colorectal cancer