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PTGES2 Rabbit pAb

Catalog # AP100269

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9H7Z7
Other Accession	Q9H7Z7
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41943
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTGES2
Epitope Specificity	171-270/377
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GST superfamily. Contains 1 glutaredoxin domain. Contains 1 GST C-terminal domain.
SUBUNIT	Homodimer. May interact with CEBPB.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a membrane-associated prostaglandin E synthase, which catalyzes the conversion of prostaglandin H2 to prostaglandin E2. This protein also has been shown to activate the transcription regulated by a gamma-interferon-activated transcription element (GATE). Multiple transcript variants have been found for this gene. [provided by RefSeq].

Additional Information

Gene ID	80142
Other Names	MPGES-2; C9orf15; GBF-1; GBF1; PGES2; 0610038H10Rik; Mpges2; PGES2_BOVIN; PTGES2; Membrane-associated prostaglandin E synthase-2 (mPGE synthase-2); Microsomal prostaglandin E synthase 2 (mPGES-2); 5.3.99.3; PGES2_HUMAN; Prostaglandin-H(2) E-isomerase; PGES2_MOUSE; GATE-binding factor 1 (GBF-1); prostaglandin E synthase 2; chromosome 9 open reading frame 15
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:400-800,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.