

Anti-Prostaglandin E Synthase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

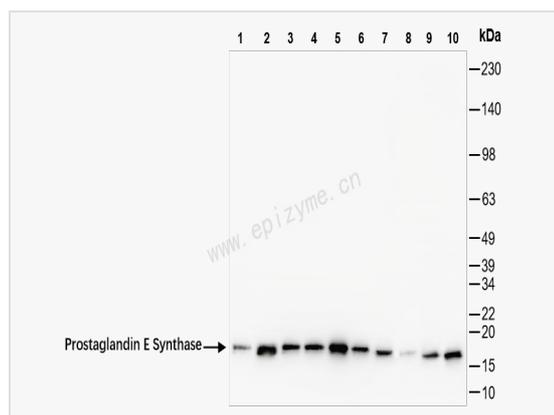
Catalog # R012074

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	66K36K48
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Prostaglandin E Synthase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Prostaglandin E Synthase Rabbit mAb [66K36K48] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	MGST1L1; MPGES1; PGES; PIG12; PTGES; Prostaglandin E synthase; Glutathione peroxidase PTGES; Glutathione transferase PTGES; Microsomal glutathione S-transferase 1-like 1; Microsomal prostaglandin E synthase 1; p53-induced gene 12 protein; MGST1-L1; MPGES-1.
Calculated MW	Calculated MW: 17 kDa; Observed MW: 17 kDa
Uniprot ID	O14684
Gene ID	9536
Background	The protein encoded by this gene is a glutathione-dependent prostaglandin E synthase. The expression of this gene has been shown to be induced by proinflammatory cytokine interleukin 1 beta (IL1B). Its expression can also be induced by tumor suppressor protein TP53, and may be involved in TP53 induced apoptosis. Knockout studies in mice suggest that this gene may contribute to the pathogenesis of collagen-induced arthritis and mediate acute pain during inflammatory responses. [provided by RefSeq, Jul 2008]
Cellular Location	Membrane.Multi-pass membrane protein.Cytoplasm.Perinuclear region.Colocalizes with PTGS1/COX-1 and PTGS2/COX-2 in the perinuclear compartment.



Western Blot - Anti-Prostaglandin E Synthase mAb [66K36K48]

All lanes: R012074 at 1:1,000 dilution

Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 2: Hel (Human erythroLeukemia suspension cell) whole cell lysates

Lane 3: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates

Lane 4: K562 (Human chronic myeloid leukemia cell) whole cell lysates

Lane 5: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 7: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 8: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 9: Rat spleen whole tissue lysates

Lane 10: Rat lymphoid whole tissue lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 17 kDa

Observed band size: 17 kDa

Developed using the ECL technique (Cat. No. SQ201).