

**Product Name: Prostaglandin D Synthase Rabbit
Monoclonal Antibody
Catalog #: AMRe02477**

Summary

Production Name	Prostaglandin D Synthase Rabbit Monoclonal Antibody
Description	Recombinant Rabbit Monoclonal antibody
Host	Rabbit
Application	WB,IHC-F,IHC-P,ICC/IF
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purification	Affinity Purified

Immunogen

Gene Name	PTGDS
Alternative Names	PDS; PGD2; PGDS; LPGDS; PGDS2; L-PGDS
Gene ID	5730
SwissProt ID	P41222

Application

Dilution Ratio	WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200
Molecular Weight	Calculated MW: 21 kDa; Observed MW: 26 kDa

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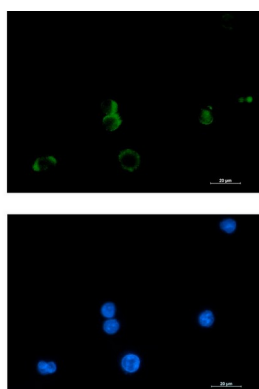
Background

Catalyzes the conversion of PGH₂ to PGD₂, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. Involved in a variety of CNS functions, such as sedation, NREM sleep and PGE₂-induced allodynia, and may have an anti-apoptotic role in oligodendrocytes. Binds small non-substrate lipophilic molecules, including biliverdin, bilirubin, retinal, retinoic acid and thyroid hormone, and may act as a scavenger for harmful hydrophobic molecules and as a secretory retinoid and thyroid hormone transporter. Possibly involved in development and maintenance of the blood-brain, blood-retina, blood-aqueous humor and blood-Tis barrier. It is likely to play important roles in both maturation and maintenance of the central nervous system and male reproductive system.

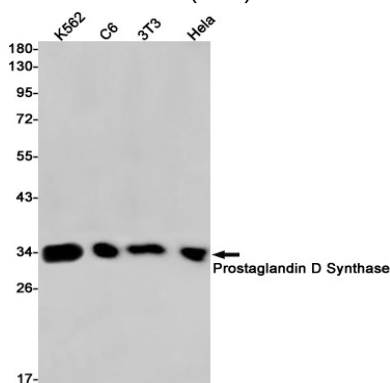
Research Area

Signal Transduction

Image Data

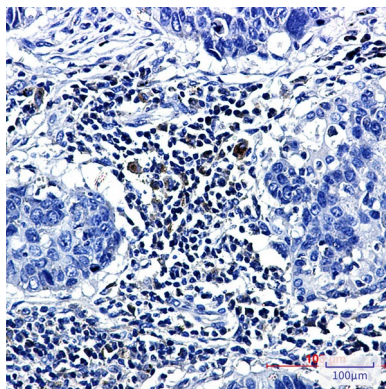


Immunocytochemistry analysis of Prostaglandin D Synthase (green) in K562 using Prostaglandin D Synthase antibody, and DAPI (blue).



Western blot analysis of Prostaglandin D Synthase in K562, C6, 3T3, HeLa lysates using Prostaglandin D Synthase antibody.

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Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Prostaglandin D Synthase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Note

For research use only.