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

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	0.54mg/ml. The concentration of this product may be batch-dependent.
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
<b>Purification</b>	Affinity Purification

**Application**

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

**Antigen Information**

<b>Gene Name</b>	PTGDS
<b>Alternative Names</b>	PDS; PGD2; PGDS; LPGDS; PGDS2; L-PGDS
<b>Gene ID</b>	5730
<b>SwissProt ID</b>	P41222
<b>Immunogen</b>	A synthetic peptide of human Prostaglandin D Synthase

**Background**

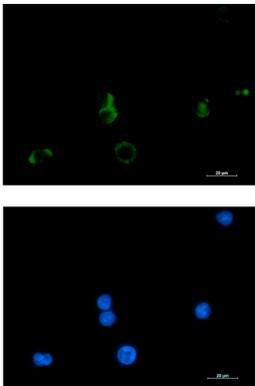
Catalyzes the conversion of PGH<sub>2</sub> to PGD<sub>2</sub>, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. Involved in a variety of CNS functions, such as sedation, NREM sleep and PGE<sub>2</sub>-induced

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.

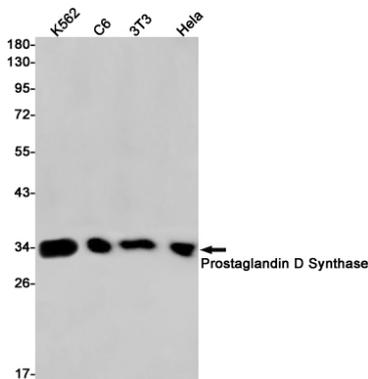
## Research Area

Signal Transduction

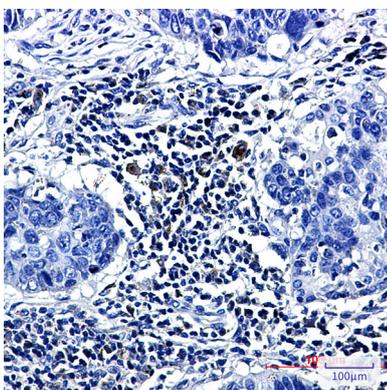
## Image Data



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.



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.