

## PTGDS

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:** 21kDa

**Observed MW:** Refer to figures

**Immunogen:**

Recombinant protein of human PTGDS

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

PDS; PGD2; PGDS; LPGDS; PGDS2; L-PGDS;

**Catalog #:** A1889

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 5730

**Isotype:** IgG

**Swiss Prot:** P41222

**Purity:** Affinity purification

For research use only.

**Background:**

The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H<sub>2</sub> (PGH<sub>2</sub>) to prostaglandin D<sub>2</sub> (PGD<sub>2</sub>). PGD<sub>2</sub> functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD<sub>2</sub> is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. This gene is preferentially expressed in brain. Studies with transgenic mice overexpressing this gene suggest that this gene may be also involved in the regulation of non-rapid eye movement sleep.

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