

## PTGDS Antibody

Catalog No: #31107

Package Size: #31107-1 50ul #31107-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	PTGDS Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total PTGDS protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 64-325 amino acids of human prostaglandin D2 synthase 21kDa (brain)prostaglandin D2 synthase 21kDa (brain)
Target Name	PTGDS
Other Names	prostaglandin D2 synthase 21kDa (brain), PDS, PGD2, PGDS, LPGDS, PGDS2, L-PGDS
Accession No.	Swiss-Prot:P41222Gene ID:5606;
Uniprot	P41222
GeneID	5606;
Concentration	1.5mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20°C/1 year

## Application Details

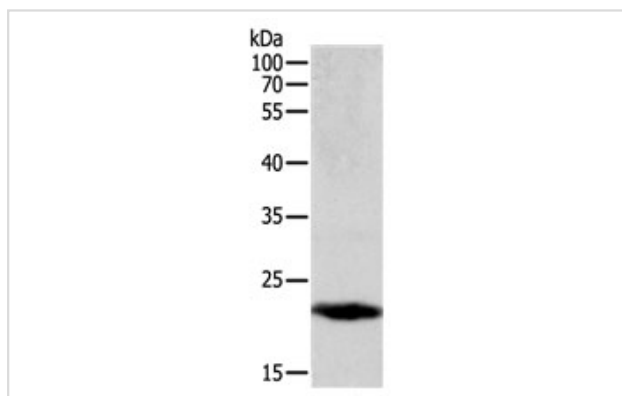
Predicted MW: 21kd

ELISA: 1:1000-1:5000

Western blotting: 1:200-1:1000

Immunohistochemistry: 1:25-1:100

## Images



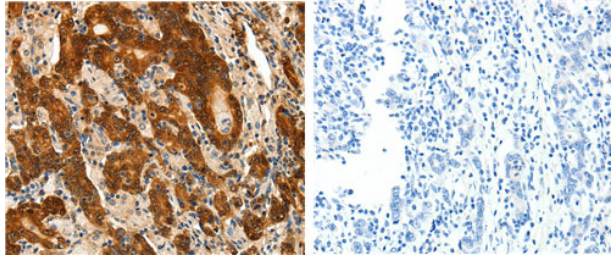
Gel: 12%SDS-PAGE

Lysate: 50 µg SKOV3 cell lysate

Primary antibody: 1/100dilution

Secondary antibody: Goat anti Rabbit IgG - H&amp;L (HRP) at 1/10000 dilution

Exposure time: 5 seconds



The image on the left is immunohistochemistry of paraffin-embedded human gastric cancer tissue using 31107(PTGDS Antibody) at dilution 1/15, on the right is treated with the fusion protein.

## 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.

Note: This product is for in vitro research use only