

## Product datasheet for **TA321246**

### PTGS1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 20-100 Positive control: Human stomach cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 586-599 amino acids of Human prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	prostaglandin-endoperoxide synthase 1
Database Link:	<a href="#">NP_542158</a> <a href="#">Entrez Gene 5742 Human</a> <a href="#">P23219</a>
Background:	Cyclooxygenase-1 (COX-1); also known as prostaglandin G/H synthase 1; prostaglandin-endoperoxide synthase 1 or prostaglandin H2 synthase 1; is an enzyme that in humans is encoded by the PTGS1 gene. This is one of two genes encoding similar enzymes that catalyze the conversion of arachinodate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells; and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants.



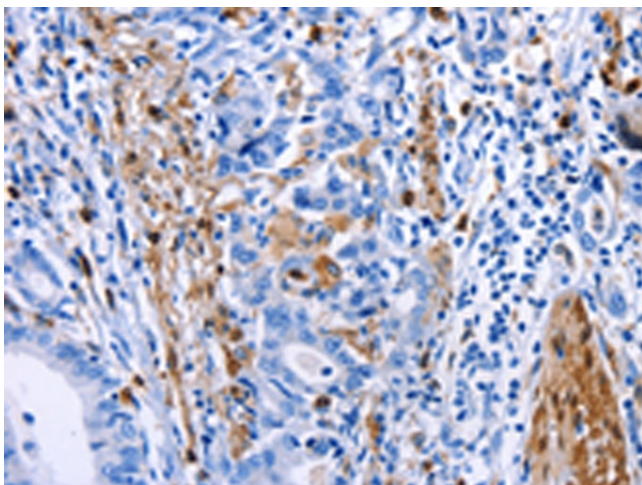
[View online »](#)

**Synonyms:** COX1; COX3; HS; PCOX1; PES-1; PGG; PGHS-1; PGHS1; PHS1; PTGHS

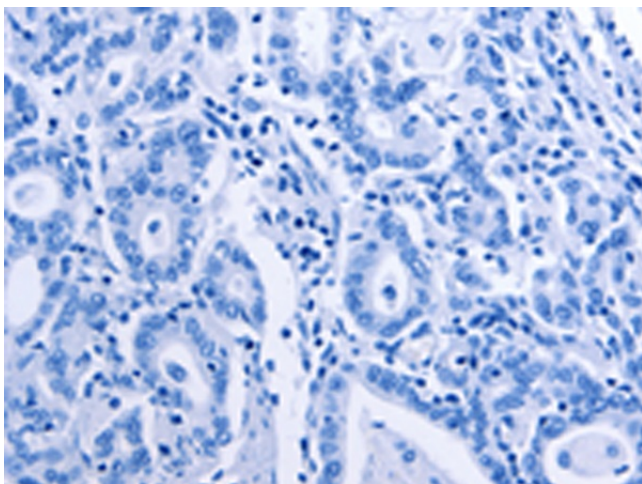
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Arachidonic acid metabolism, Metabolic pathways

**Product images:**



Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using TA321246 (PTGS1 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using TA321246 (PTGS1 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )