

COX2 Polyclonal Antibody

Catalog number: 12375-1-AP

Size: 39 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

PTGS2; COX 2, COX2,

Cyclooxygenase 2, GRIPGHS,

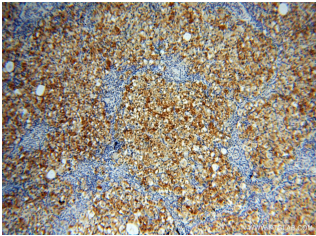
hCox 2, PGG/HS, PGH synthase

2, PGHS 2, PHS 2, PHS II,

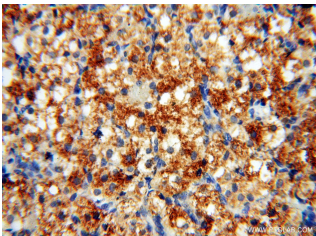
Prostaglandin G/H synthase 2,

Prostaglandin H2 synthase 2,

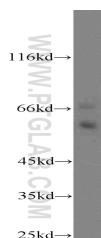
PTGS2



Immunohistochemical of paraffin-embedded human ovary using 12375-1-AP (PTGS2 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human ovary using 12375-1-AP (PTGS2 antibody) at dilution of 1:50 (under 40x lens)



LPS treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 12375-1-AP (PTGS2 antibody) at dilution of 1:600

Background

COX2 (Prostaglandin G/H synthase 2; PTGS2) mediates the formation of prostaglandins from arachidonate. Its subunit structure is homodimer. The fully N-glycosylated PTGS2 is 72–74 kDa and the aglycosylated is 66 kDa (PMID:19656660). It also expresses a band of 39 kDa after unspecific cleavage (PMID:17509125). The 50 kDa band of fragmented PTGS2 has also previously been detected in AD brains (PMID:14724276).

Applications

Tested applications:	ELISA, WB, IHC, IF
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated COX2 MW:	604aa, 68 kDa
Observed COX2 MW:	70-74 kDa, 64 kDa
Positive WB detected in	LPS treated HEK-293 cells, HEK-293 cells, LPS treated RAW264.7 cells, mouse embryo tissue, rat stomach tissue, RAW264.7 cells
Positive IHC detected in	Human ovary tissue, human colon cancer tissue, human kidney tissue, human lung cancer tissue, human lung tissue, human placenta tissue, human prostate hyperplasia tissue, human testis tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:10-1:100

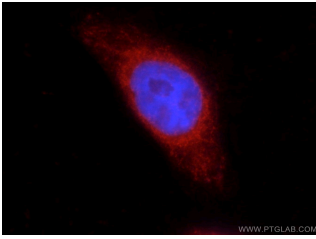
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3025
GenBank accession number:	BC013734
Gene ID (NCBI):	5743
Full name:	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



**Immunofluorescent analysis
of HepG2 cells using 12375-1-
AP(COX2/ Cyclooxygenase 2
Antibody) at dilution of 1:25
and Rhodamine-Goat anti-
Rabbit IgG**