

Datasheet for ABIN6940432

Recombinant anti-PTGS2 antibody (AA 442-572)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	PTGS2
Binding Specificity:	AA 442-572
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This PTGS2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human COX2 protein fragment (around aa 442-572) (exact sequence is proprietary)
Clone:	COX2-3232R
Isotype:	IgG
Purification:	Purified by Protein A/G

Target Details

Target:	PTGS2
Alternative Name:	PTGS2 (PTGS2 Products)

Target Details

Background: Prostaglandins are a diverse group of autocrine and paracrine hormones that mediate many cellular and physiologic processes. Prostaglandin H2 (PGH2) is an intermediate molecule in formation of the prostaglandins. Cyclooxygenase-1 (Cox-1) and cyclooxygenase-2 (Cox-2) are prostaglandin synthases that catalyze the formation of PGH2 from arachidonic acid (AA). Cox-1 and Cox-2 are isozymes of prostaglandin-endoperoxidase synthase (PTGS). Cox-1 is constitutively expressed in most tissues and is thought to serve in general housekeeping functions. Cox-2 is efficiently induced in migratory cells responding to pro-inflammatory stimuli and is considered to be an important mediator of inflammation. Both enzymes are targets for the nonsteroidal therapeutic anti-inflammatory drugs, NSAIDs. COX2 expression is significantly increased in 85-90 % of human colorectal adenocarcinomas whereas levels of COX-1 are not changed.

Molecular Weight: 70-72kDa

Gene ID: 5743

UniProt: [P35354](#)

Pathways: [Brown Fat Cell Differentiation](#), [Positive Regulation of fat Cell Differentiation](#)

Application Details

Application Notes: Positive Control: Human colon or lung carcinoma tissue (IHC).
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

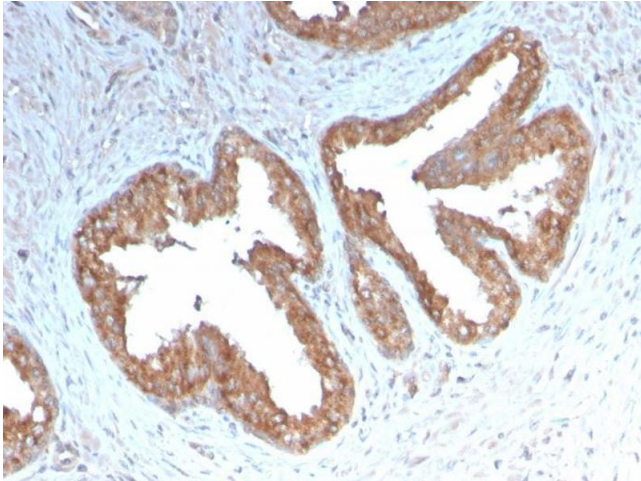
Storage: 4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

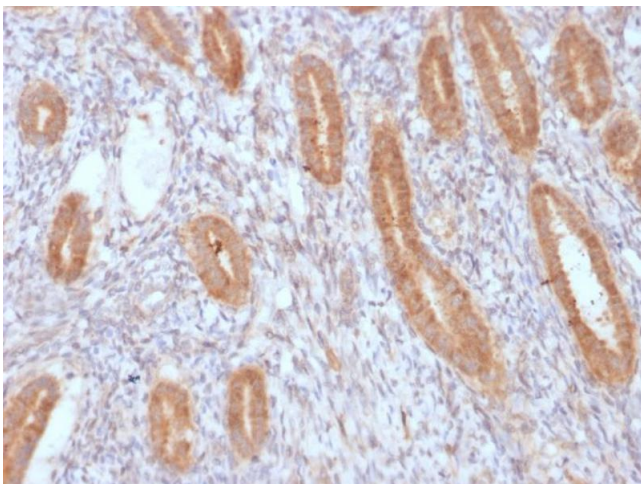
Expiry Date: 24 months

Images



Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/3232R).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Endometrium stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/3232R).