Datasheet for ABIN6940431

anti-PTGS2 antibody (AA 442-572)

2 Images

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Overview

Quantity:	100 µg
Target:	PTGS2
Binding Specificity:	AA 442-572
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTGS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Coating (Coat)

Product Details

Immunogen:	Recombinant human COX2 protein fragment (around aa 442-572) (exact sequence is proprietary)
Clone:	COX2-1941
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	PTGS2
Alternative Name:	PTGS2 (PTGS2 Products)
Background:	Prostaglandins are a diverse group of autocrine and paracrine hormones that mediate many

Target Details

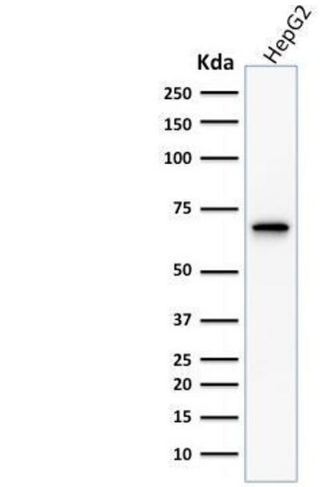
	cellular and physiologic processes. Prostaglandin H2 (PGH2) is an intermediate molecule in formation of the prostaglandins. Cyclooxygenase-1 (Cox-1) and cyclooxygenase-2 (Cox-2) are prostaglandin synthases that catalyze the formation of PGH2 from arachidonic acid (AA). Cox-1 and Cox-2 are isozymes of 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: Colon or Lung Carcinoma. HepG2 cells. Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Western Blot (0.5-1 µg/mL)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

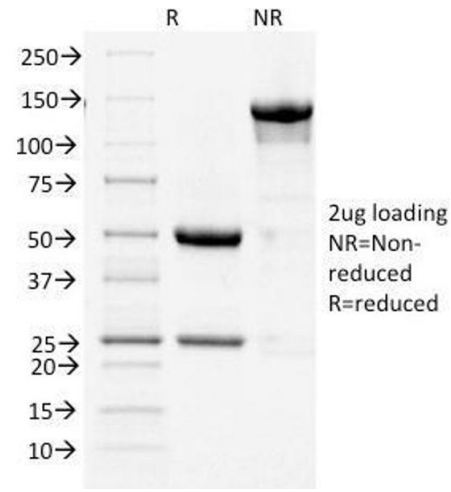
Handling

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
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



Western Blotting

Image 1. Western Blot Analysis of human HepG2 cell lysate using COX-2 Mouse Monoclonal Antibody (COX2/1941).



SDS-PAGE

Image 2. SDS-PAGE Analysis Purified COX-2 Mouse Monoclonal Antibody (COX2/1941). Confirmation of Integrity and Purity of Antibody.