antibodies.com

Datasheet for ABIN6146415 anti-PTGS2 antibody (AA 375-604)

5 Images

3 Publications



Overview

Quantity:	100 µL
Target:	PTGS2
Binding Specificity:	AA 375-604
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 375-604 of
	human COX2/PTGS2 (NP_000954.1).
Sequence:	PLLPDTFQIH DQKYNYQQFI YNNSILLEHG ITQFVESFTR QIAGRVAGGR NVPPAVQKVS
	QASIDQSRQM KYQSFNEYRK RFMLKPYESF EELTGEKEMS AELEALYGDI DAVELYPALL
	VEKPRPDAIF GETMVEVGAP FSLKGLMGNV ICSPAYWKPS TFGGEVGFQI INTASIQSLI
	CNNVKGCPFT SFSVPDPELI KTVTINASSS RSGLDDINPT VLLKERSTEL
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Target Details	
Target:	PTGS2

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6146415 | 01/16/2024 | Copyright antibodies-online. All rights reserved.

Target Details	
Alternative Name:	PTGS2 (PTGS2 Products)
Background:	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis.,PTGS2,COX- 2,COX2,GRIPGHS,PGG/HS,PGHS-2,PHS-2,hCox-2,Cox2,Cancer,Tumor biomarkers,Signal Transduction,Endocrine & Metabolism,Lipid Metabolism,Cholesterol Metabolism,Cardiovascular,Blood,Lipids,PTGS2
Molecular Weight:	68 kDa
Gene ID:	5743
UniProt:	P35354
Pathways:	Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation
Application Details	
Application Notes:	WB,1:1000 - 1:4000,IHC,1:50 - 1:200,IF,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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 Comment: Store at -20°C. Avoid freeze / thaw cycles.

Storage:

-20 °C

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6146415 | 01/16/2024 | Copyright antibodies-online. All rights reserved. Product cited in:

Dai, Ciccotosto, Cappai, Tang, Li, Xie, Xiao, Velkov: "Curcumin Attenuates Colistin-Induced Neurotoxicity in N2a Cells via Anti-inflammatory Activity, Suppression of Oxidative Stress, and Apoptosis." in: **Molecular neurobiology**, Vol. 55, Issue 1, pp. 421-434, (2018) (PubMed).

Zhang, Li, Li, Liu, Wei, Qian: "Ceramide enhances COX-2 expression and VSMC contractile hyperreactivity via ER stress signal activation." in: **Vascular pharmacology**, Vol. 96-98, pp. 26-32, (2017) (PubMed).

Zou, Zhou, Hu, Zhang, Tang, Wen, Xiao, Wang: "Rhizoma Smilacis Glabrae inhibits pathogeninduced upper genital tract inflammation in rats through suppression of NF-κB pathway." in: **Journal of ethnopharmacology**, Vol. 202, pp. 103-113, (2017) (PubMed).

Images





Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon using COX2/PTGS2 Rabbit pAb (ABIN6130125, ABIN6146415, ABIN6146417 and ABIN6216190) at dilution of 1:50 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Western Blotting

Image 2. Effect of PEF on LPS-stimulated iNOS and COX-2 expression in RAW 264.7 macrophages. RAW 264.7 macrophages were preincubated with 10-200 µg/mL PEF for 2h and then treated with 1 µg/mL LPS for 24h. (a) The protein level of iNOS and COX-2 was determined by Western blot analysis. GAPDH was used as an endogenous control. (b) Total RNA was isolated and reverse-transcribed into cDNA for RT-PCR analysis of iNOS and COX-2 mRNA level. GAPDH was used as an endogenous control. Results are shown as the mean±SD (n = 3). The different letters

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN6146415 | 01/16/2024 | Copyright antibodies-online. All rights reserved.

represent the statistical differences at p < 0.05 among the groups by Tukey-Kramer's test. - figure provided by CiteAb. Source: PMID30159118

Western Blotting

Image 3. DSC ameliorates DSS-mediated loss of intestinal barrier integrity and inflammatory response. Colitis was induced as described in Materials and Methods and treated with or without DSC (50 mg/kg). A, The mRNA expression of claudin-1, ZO-2 and Muc-2 (Mucin-2) in the colon. B, Representative bands and quantitative analyses of claudin-1 and ZO-2 were measured in the colon. C, The mRNA levels of cytokines in colonic tissues. D, Representative bands and quantitative analysis of COX-2 and iNOS in colonic tissues, β -actin was used as loading control. E, Serum cytokines. F, colonic MPO activities. Data shown are means ± SEM of n = 8 in each group. *P < 0.05 vs Control (CTL), #P < 0.05 vs DSS-treated mice - figure provided by CiteAb. Source: PMID32945118

Please check the product details page for more images. Overall 5 images are available for ABIN6146415.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN6146415 | 01/16/2024 | Copyright antibodies-online. All rights reserved.

