Cycloxygenase-2 Recombinant Monoclonal Rabbit Antibody (COX2/3232R)



Product Description

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. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

Product attribute

Call us: 800-304-5357 Email: btinfo@biotium.com

Product attributes						
Antibody number	#3232					
Antibody reactivity	Cycloxygenase-2					
(target) Antibody type	Primary					
Host species	Rabbit					
Clonality	Recombinant Monoclonal					
Clone	COX2/3232R					
Isotype	IgG					
Molecular weight	70-72 kDa					
Synonyms	Glucocorticoid-regulated inflammatory Prostaglandin G/H synthase; GRIPGHS; Macrophage activation-associated marker protein P71/73; PES-2; PGG/HS; PGHS-2; Prostaglandin endoperoxide synthase 2; Prostaglandin endoperoxide synthase 2 (PTGS2); TIS10					
Human gene symbol	PTGS2					
Entrez gene ID	5743					
SwissProt	P35354					
Unigene	196384					
Immunogen	Recombinant human COX2 protein fragment (around aa 442-572) (exact sequence is proprietary)					
Verified antibody	IHC (FFPE) (verified)					
Antibody target cellular localization	Cytoplasmic					
Species reactivity	Human					
Positive control	Human colon or lung carcinoma tissue (IHC).					
Shipping condition	Room temperature					
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C					
Regulatory status	For research use only (RUO)					
Antibody/conjugate formulation	Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purffied: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purffied, BSA-free: 1 mg/mL in PBS without azide					
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as					

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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This datasheet was generated on July 2, 2024 at 06:21:43 AM. Visit product page to check for updated information before use. Product link: https://biodium.com/product/cycloxygenase-2-recombinant-monoclonal-rabbit-antibody-cox2-3232r/

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