



Rabbit polyclonal antibody to human Cyclooxygenase-2 (28-50): Affinity purified

Catalogue No.:	R-1114-100
Description:	Cyclooxygenase (COX) is an important enzyme in the conversion of arachidonic acid to Prostaglandin H ₂ , the precursor of the series-2 prostanoids. At least 3 splice variants have been found; COX-1, COX-2 and COX-3. COX-2 is induced by cytokines and mitogens and is thought to play a role in inflammatory diseases such as rheumatoid arthritis.
Batch No.:	See product label
Unit size:	100 ug
Antigen:	A synthetic peptide (NRGVCMSVGFQYKCDCTRTGFY) corresponding to a region (28-50) from human Cyclooxygenase-2. To enhance the immunological response, this peptide was coupled to carrier protein BSA.
Other Names:	Prostaglandin G/H synthase 2; EC 1.14.99.1; Cyclooxygenase-2; COX-2; Prostaglandin-endoperoxide synthase 2; Prostaglandin H ₂ synthase 2; PGH synthase 2; PGHS-2; PHS II; PTGS2; COX2;
Accession:	P35354 PGH2_HUMAN;
Produced in:	Rabbit
Purity:	Affinity purified on antigen column
Applications:	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 1.0 ug/mL is recommended for WB. Human COX-2 (precursor) has a predicted length of 604 residues and MW of 69 kDa. A concentration of 1.0-2.0 ug/mL is recommended to detect the protein in formalin fixed and paraffin embedded tissues. Heat activated antigen retrieval is required. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
Cross-reactivity:	Human; rat; predicted to react with mouse due to sequence homology;
Form:	Lyophilised with 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃
Reconstitution:	Reconstitute in 100 uL of sterile distilled water to achieve an antibody concentration of 1 mg/mL. Centrifuge to remove any insoluble material.
Storage:	At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles
Expiry Date:	12 months after purchase

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