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36-3059: Anti-Cycloxygenase-2 (COX-2) Monoclonal Antibody(Clone: COX2/3232R)

Clonality :	Monoclonal
Clone Name :	COX2/3232R
Application :	IHC
Reactivity :	Human
Gene :	PTGS2
Gene ID :	5743
Uniprot ID :	P35354
Alternative Name :	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
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant human COX2 protein fragment (around aa 442-572) (exact sequence is proprietary)

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 thoÂµght 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 drÂµgs, NSAIDs. COX2 expression is significantly increased in 85-90% of human colorectal adenocarcinomas whereas levels of COX-1 are not changed.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);



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

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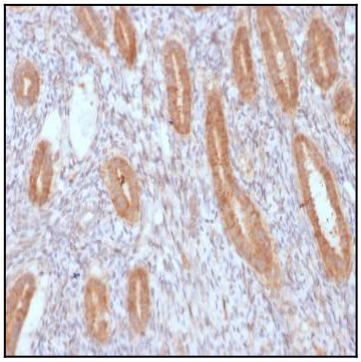


Fig. 2: Formalin-fixed, paraffin-embedded human Endometrium stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/3232R).

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