

## Product Datasheet

### COX2 Antibody / PTGS2 (orb1824300)

<b>Description</b>	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.
<b>Species/Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	IHC-P
<b>Immunogen</b>	A recombinant partial protein sequence (within amino acids 400-604) from the human protein was used as the immunogen for the Cyclooxygenase 2 antibody.
<b>Storage</b>	Aliquot the Cyclooxygenase 2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clonality</b>	Recombinant
<b>Clone Number</b>	COX2/7803R

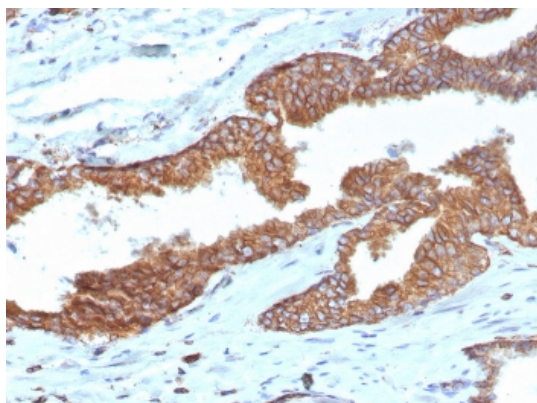
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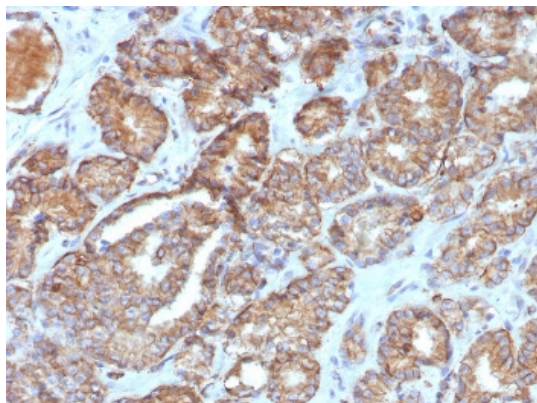
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<b>Antibody Type</b>	Primary Antibody
<b>Uniprot ID</b>	<b>P35354</b>
<b>Hazard Information</b>	This Cyclooxygenase 2 antibody is available for research use only.
<b>Dilution Range</b>	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Expiration Date</b>	12 months from date of receipt.



IHC staining of FFPE human prostate tissue with Cyclooxygenase 2 antibody (clone COX2/7803R). HIER: boil tissue sections in pH9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.



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