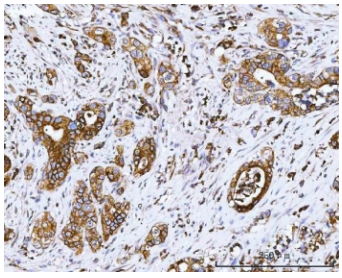
# COX-2 Antibody / PTGS2 (R30815)

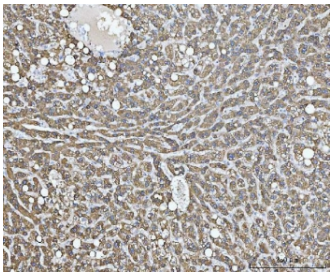
| Catalog No. | Formulation | Size |
|---|---|---|
| R30815 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

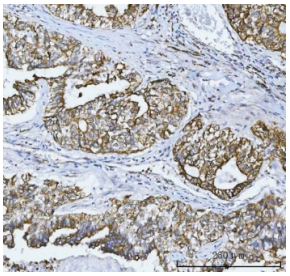
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | P35354 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml |
| **Limitations** | This COX-2 antibody is available for research use only. |



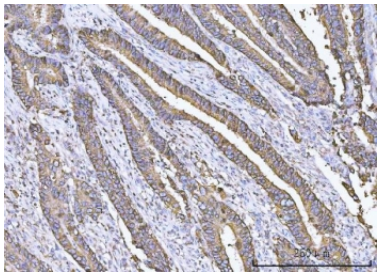
IHC testing of FFPE differentiated adenocarcinoma in human appendix tissue with COX-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



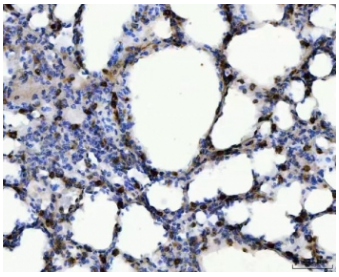
IHC testing of FFPE human liver cancer tissue with COX-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



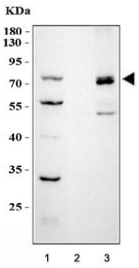
IHC testing of FFPE human lung adenocarcinoma tissue with COX-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC testing of FFPE human colonic adenocarcinoma tissue with COX-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC testing of FFPE mouse lung tissue with COX-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human HeLa, 2) mouse thymus and 3) LPS-stimulated mouse RAW264.7 cell lysate with COX-2 antibody. Predicted molecular weight ~69 kDa.

## Description

Cyclooxygenase (COX) is the key enzyme in conversion of arachidonic acid to PGs. The COX2 gene encodes an inducible prostaglandin synthase enzyme that is overexpressed in adenocarcinomas and other tumors. Deletion of the murine gene in Min mice reduced the incidence of intestinal tumors, suggesting that it is required for tumorigenesis.

## Application Notes

Titration of the COX-2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Amino acids 589-604 (DDINPTVLLKERSTEL-human) were used as the immunogen for this COX-2 antibody.

## Storage

The lyophilized COX-2 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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