

## Product datasheet for **TA385085**

### COX2 (PTGS2) Rabbit Monoclonal Antibody [Clone ID: R04-3I1]

#### Product data:

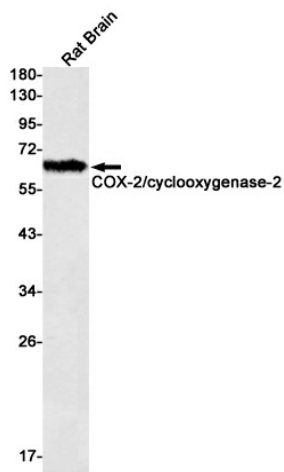
|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | R04-3I1  |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB: 1/1000<br>IHC: 1/20  |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Monoclonal   |
| Immunogen:              | A synthetic peptide of human COX2  |
| Formulation:            | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA  |
| Concentration:          | lot specific   |
| Purification:           | Affinity Purified  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.   |
| Stability:              | 1 year   |
| Predicted Protein Size: | Calculated MW: 69 kDa; Observed MW: 69 kDa   |
| Gene Name:              | prostaglandin-endoperoxide synthase 2  |
| Database Link:          | <a href="#">Entrez Gene 5743 Human P35354</a>  |
| Background:             | Swiss-Prot Acc.P35354.Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis (PubMed:26859324, PubMed:27226593). Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis. |



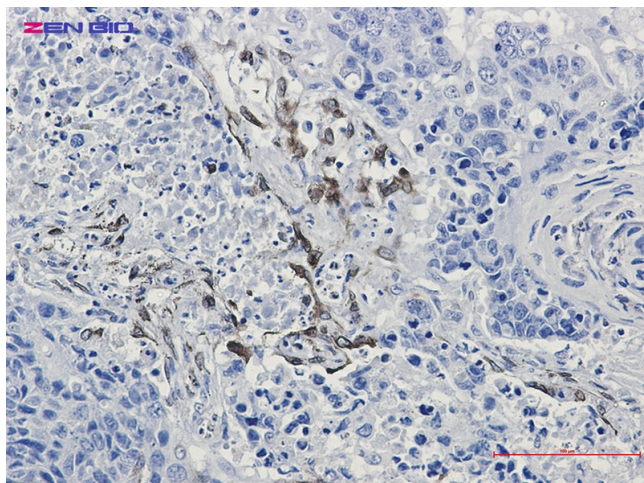
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Synonyms: COX-2; COX2; Cyclooxygenase-2; GRIPGHS; hCox-2; PGG/HS; PGHS-2; PHS-2

### Product images:



Western blot analysis of COX2/cyclooxygenase2 in rat Brain lysates using Cyclooxygenase 2 antibody.



Immunohistochemistry of COX2 in paraffin-embedded Human lung cancer tissue using COX2 Rabbit mAb at dilution 1/50