

## Product datasheet for **CF805310**

### COX2 (PTGS2) Mouse Monoclonal Antibody [Clone ID: OTI6D10]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI6D10  |
| Applications:           | WB   |
| Recommended Dilution:   | WB 1:2000  |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 18-260 of human PTGS2 (NP_000954) produced in E.coli.  |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 67.2 kDa   |
| Gene Name:              | prostaglandin-endoperoxide synthase 2  |
| Database Link:          | <a href="#">NP_000954</a><br><a href="#">Entrez Gene 19225 Mouse</a> <a href="#">Entrez Gene 29527 Rat</a> <a href="#">Entrez Gene 5743 Human</a><br><a href="#">P35354</a>  |



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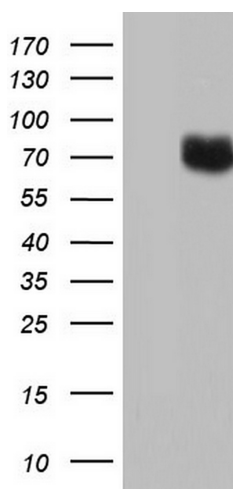
**Background:** Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoic acid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb 2009]

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

**Protein Families:** Druggable Genome

**Protein Pathways:** Arachidonic acid metabolism, Pathways in cancer, Small cell lung cancer, VEGF signaling pathway

### Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PTGS2 ([RC202245], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTGS2.