Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody

**Catalog Number:** PA1211

**About PTGS2**

Cyclooxygenase (Cox) is the key enzyme in conversion of arachidonic acid to PGs, and two isoforms, Cox-1 and Cox-2, have been identified. Cox-2 gene encodes an inducible prostaglandin synthase enzyme that is overexpressed in adenocarcinomas and other tumors. Deletion of the murine Cox-2 gene in Min mice reduced the incidence of intestinal tumors, suggesting that it is required for tumorigenesis. This gene is localized to sites associated with retinal blood vessels, and plays an important role in blood vessel formation in the retina. And the glucocorticoid receptor suppression of COX-2 is also crucial for curtailing lethal immune activation, and suggest new therapeutic approaches for regulation of T-cell-mediated inflammatory diseases.

**Overview**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactive Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Description</td>
<td>Rabbit IgG polyclonal antibody for Prostaglandin G/H synthase 2(PGTS2) detection. Tested with WB, IHC-P in Human; Mouse; Rat.</td>
</tr>
<tr>
<td>Conjugate</td>
<td>No</td>
</tr>
<tr>
<td>Application</td>
<td>IHC, WB</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Formulation</td>
<td>Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.</td>
</tr>
<tr>
<td>Storage Instructions</td>
<td>At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Uniprot ID</td>
<td>P35354</td>
</tr>
</tbody>
</table>

**Technical Details**

<table>
<thead>
<tr>
<th>Immunogen</th>
<th>A synthetic peptide corresponding to a sequence at the N-terminus of human COX2[26-41aa CQNRGVCMSVGFDQYK], different from the related rat sequence by two amino acids.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predicted Reactive Species</td>
<td>Horse</td>
</tr>
<tr>
<td>Recommended Detection Systems</td>
<td>Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western</td>
</tr>
<tr>
<td>Cross Reactivity</td>
<td>No cross reactivity with other proteins</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Isotype</td>
<td>N/A</td>
</tr>
<tr>
<td>Form</td>
<td>Lyophilized</td>
</tr>
<tr>
<td>Concentration</td>
<td>Add 0.2ml of distilled water will yield a concentration of 500μg/ml.</td>
</tr>
<tr>
<td>Reconstitution</td>
<td>Add 0.2ml of distilled water will yield a concentration of 500μg/ml.</td>
</tr>
<tr>
<td>Purification</td>
<td>Immunogen affinity purified.</td>
</tr>
<tr>
<td>Suggested Dilutions</td>
<td>Immunohistochemistry(Paraffin-embedded Section), 0.5-1μg/ml, Human, By Heat Western blot, 0.1-0.5μg/ml, Human, Rat, Mouse</td>
</tr>
</tbody>
</table>

For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

### Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody (PA1211) Images

**Anti-COX2/Cyclooxygenase 2 antibody, PA1211, Western blotting**
- Lane 1: MCF-7 Cell Lysate
- Lane 2: HEla Cell Lysate
- Lane 3: MM453 Cell Lysate
- Lane 4: JURKAT Cell Lysate
- Lane 5: COLO320 Cell Lysate

**Anti-COX2/Cyclooxygenase 2 antibody, PA1211, IHC(P)**
- IHC(P): Human Mammary Cancer Tissue
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