

## Anti-Cox-2 Antibody

Catalog Number: A00084-1

### About PTGS2

COX-2, also known as prostaglandin H synthase, was identified less than a decade ago. Its discovery was followed by a period of discovery and drug development to create a "super aspirin" and led to insights into arthritis, Alzheimer's disease, colorectal cancer and regulation of brain and kidney function in search of better treatments for degenerative and inflammatory diseases. Cox-2 is involved in the response of cells to growth factors, tumor promoters, and cytokines that induce its expression. Given its role in synthesizing prostaglandins, Cox-2 is therefore of interest in studying immune response regulation.

### Overview

Product Name	Anti-Cox-2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cox-2 Antibody (Catalog # A00084-1). Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P35354

### Technical Details

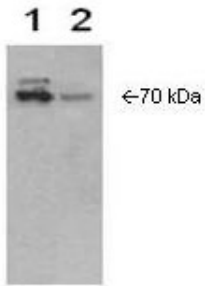
Immunogen	This whole rabbit serum was prepared by repeated immunizations with a fusion protein corresponding to the carboxy-terminus of human Cox-2.
Predicted Reactive Species	Human
Isotype	Antiserum
Form	Liquid (sterile filtered)
Concentration	55 mg/mL by Refractometry
Purification	This antiserum is directed against human Cox-2. Two different isoforms of the enzyme are known,

Cox-1 and Cox-2. A BLAST analysis was used to suggest cross-reactivity with Cox-2 in human, mouse and rat based on a homology with the immunizing sequence and should not cross react with Cox-1. Reactivity against homologues from other sources is not known. Reactivity of this antibody with Cox-2 from other species is unknown.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.  
If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.  
Some PubMed article(s) citing the expression level of this target are as follows:  
Boster Bio's internal QC testing used:  
ELISA: 1:10,000 - 1:50,000  
IHC: User optimized  
WB: 1:5,000 - 1:10,000

## Anti-Cox-2 Antibody (A00084-1) Images



Anti-Cox2 is shown to detect Cox-2 present in Cox-2 transfected Sf9 cell extract (lane 1) and IL-1 induced WISH cell extract (lane 2). Detection occurs using a 1:10,000 dilution of antibody followed by 1:10,000 dilution of HRP Goat-a-Rabbit with visualization via ECL. Film exposure approximately 1

## 12 Publications Citing This Product

1. PubMed ID: 25299052, Toll-Like Receptor 4 Prompts Human Breast Cancer Cells Invasiveness via Lipopolysaccharide Stimulation and Is Overexpressed in Patients with Lymph Node Metastasis
2. PubMed ID: 26257474, Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) Downregulates the Expression of Protumor Factors Cyclooxygenase-2 and Inducible Nitric Oxide Synthase in a GM-CSF Receptor-Independent Manner in Cervical Cancer Cells
3. PubMed ID: 25297608, Liu H, Yan Zq, Li B, Yin Sy, Sun Q, Kou Jj, Ye D, Ferns K, Liu Hy, Liu Sl. J Ovarian Res. 2014 Sep 5;7:87. Doi: 10.1186/S13048-014-0087-1. Reduced Expression Of Sox7 In Ovarian Cancer: A Novel Tumor Suppressor Through The Wnt/??-Catenin Signaling ...

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