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antibody and ELISA experts

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Anti-COX2 PTGS2 Rabbit Monoclonal Antibody

Catalog Number: M00084

About PTGS2

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-COX2 PTGS2 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-COX2 PTGS2 Rabbit Monoclonal Antibody catalog # M00084. Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse.
Application	IF, ICC, WB
Clonality	Monoclonal EEC-16
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P35354

Technical Details

Immunogen	A synthesized peptide derived from human COX2
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
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:

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	Boster Bio's internal QC testing used: WB 1:500-1:1000 ICC/IF 1:50-1:200

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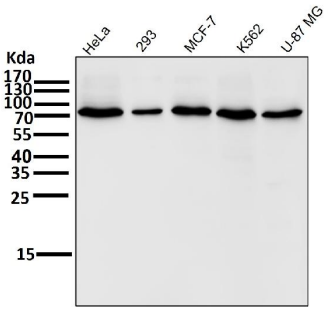
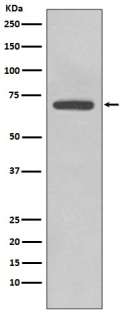
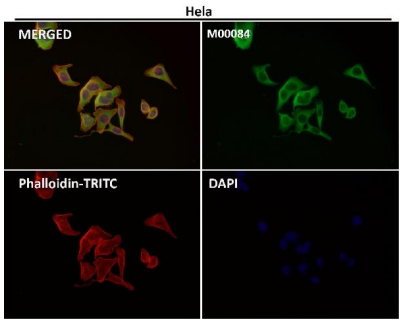
Anti-COX2 PTGS2 Rabbit Monoclonal Antibody (M00084) Images



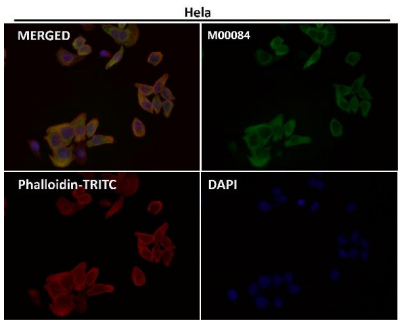
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of COX2 expression in RAW264.7 cell lysate treated with LPS.



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis using the Antibody at 1:500 dilution.

Immunofluorescent analysis using the Antibody at 1:50 dilution.

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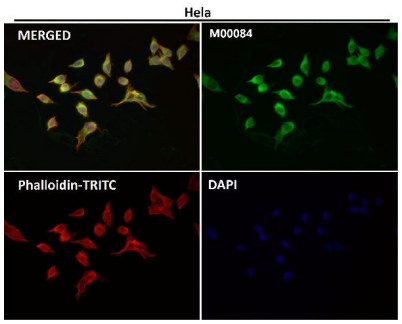
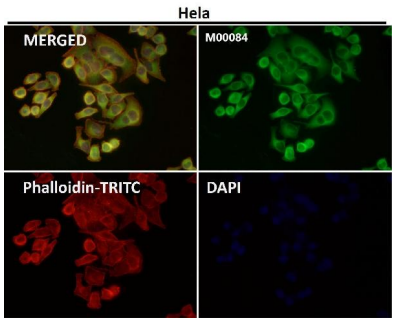
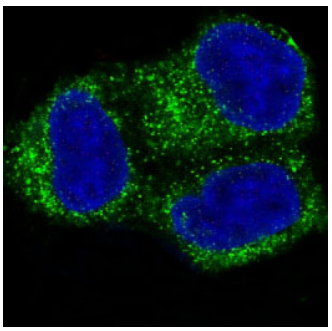




Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis of Hela cells, using COX2 Antibody.

10 Publications Citing This Product

1. PubMed ID: 31091873, Zhang ZC,Zhou Q,Yang Y,Wang Y,Zhang JL.Highly Acylated Anthocyanins from Purple Sweet Potato (Ipomoea batatas L.) Alleviate Hyperuricemia and Kidney Inflammation in Hyperuricemic Mice: Possible Attenuation Effects on Allopurinol. J Agric Food Chem.2019 Jun 5;67(22):6202-6211.doi:10.1021/acs.jafc.9b01810.Epub 2019 May 28.PMID:31091873.

2. 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

3. 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

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