

bs-0732R**[Primary Antibody]****Bioss**
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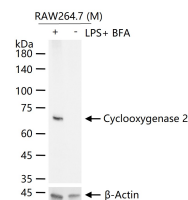
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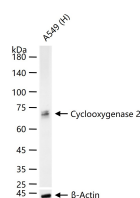
400-901-9800

Cyclooxygenase 2 Rabbit pAb**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5743**SWISS:** P35354**Target:** Cyclooxygenase 2**Immunogen:** KLH conjugated synthetic peptide derived from human Cyclooxygenase 2: 501-604/604.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

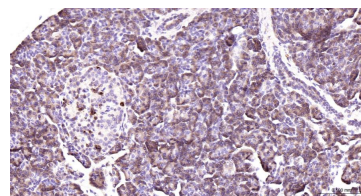
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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 isoforms of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isoform. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb 2009]**Applications:** **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)**Reactivity:** Human, Mouse**Predicted MW.:** 65 kDa**Subcellular Location:** Cytoplasm**VALIDATION IMAGES**

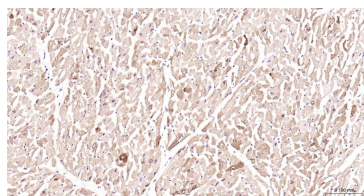
RAW264.7 (M) cells were treated with or without LPS+BFA (100 ng/mL) for 6 h, 25 µg total protein per lane of cell lysates (see on figure) probed with Cyclooxygenase 2 polyclonal antibody, unconjugated (bs-0732R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



25 µg total protein per lane of various lysates (see on figure) probed with Cyclooxygenase 2 polyclonal antibody, unconjugated (bs-0732R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Cyclooxygenase 2 Polyclonal Antibody, Unconjugated (bs-0732R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Cyclooxygenase 2 Polyclonal Antibody, Unconjugated (bs-0732R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

— SELECTED CITATIONS —

- **[IF=18.027]** Ke Li. et al. Oxygen Self-Generating Nanoreactor Mediated Ferroptosis Activation and Immunotherapy in Triple-Negative Breast Cancer. ACS NANO. 2023;17(5):4667–4687 WB ;Mouse. 36861638
- **[IF=8.3]** Jinyan Tan. et al. Integrated transcriptomics and network pharmacology to reveal the mechanism of Physochlainae Radix in the treatment of asthma. PHYTOMEDICINE. 2025 Feb;:156470 IF ;Mouse. 39947003
- **[IF=7.1]** Yuzhu Xu. et al. Targeting prominin-2/BACH1/GLS pathway to inhibit oxidative stress-induced ferroptosis of bone mesenchymal stem cells. STEM CELL RES THER. 2025 Apr;16:213 WB ;Rat. 40301995
- **[IF=6.6]** Ana Paula Girol. et al. Annexin A1 Mimetic Peptide and Piperlongumine: Anti-Inflammatory Profiles in Endotoxin-Induced Uveitis. Cells-Basel. 2021 Nov;10(11):3170 IHC ;Rat. 34831393
- **[IF=6.576]** Rong Li. et al. Integrated Analysis Reveals the Targets and Mechanisms in Immunosuppressive Effect of Mesalazine on Ulcerative Colitis. FRONT NUTR. 2022; 9: 867692 IHC,IF ;Mouse. 35662946