

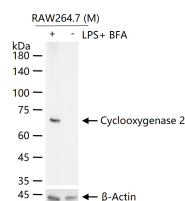
bsm-52502R**[Primary Antibody]****Cyclooxygenase 2 Recombinant Rabbit mAb****Bioss**
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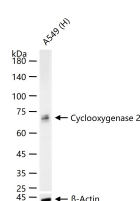
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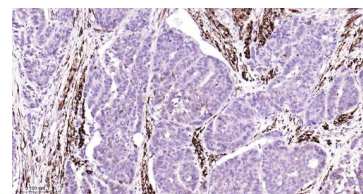
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 14D5**GeneID:** 5743**SWISS:** P35354**Target:** Cyclooxygenase 2**Immunogen:** A synthesized peptide derived from human COX2: 550-604/604.**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 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 prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb 2009]**Applications:** WB (1:1000-2000)**IHC-P** (1:200-500)**IHC-F** (1:200-500)**IF** (1:200-500)**Reactivity:** Human, Mouse**Predicted MW.:** 65 kDa**Observed MW.:** 65 kDa**Subcellular Location:** Cytoplasm**VALIDATION IMAGES**

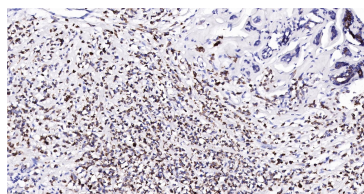
RAW264.7 (M) cells were treated with or without LPS+BFA (100 ng/mL) for 6 h, 25 µg total protein per lane of cell lysates (see on figure) probed with Cyclooxygenase 2 monoclonal antibody, unconjugated (bsm-52502R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



25 ug total protein per lane of various lysates (see on figure) probed with Cyclooxygenase 2 monoclonal antibody, unconjugated (bsm-52502R) 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 Esophagus Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Cyclooxygenase 2 Monoclonal Antibody, Unconjugated(bsm-52502R) 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 Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Cyclooxygenase 2 Monoclonal Antibody, Unconjugated(bsm-52502R) 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=4.636]** Chen Jiahao. et al. Roles of glutathione peroxidase 4 on the mercury-triggered ferroptosis in renal cells: Implications for the antagonism between selenium and mercury. METALLOMICS. 2023 Mar;; WB ;Human. 36869799
- **[IF=4.225]** Ye Xietao. et al. How Aconiti Radix Cocta can Treat Gouty Arthritis Based on Systematic Pharmacology and UPLC-QTOF-MS/MS. Front Pharmacol. 2021 Apr;12:971 WB ;Human. 33995019
- **[IF=3.1]** Chen Bai. et al. GPX4 Promoter Hypermethylation Induced by Ischemia/Reperfusion Injury Regulates Hepatocytic Ferroptosis. J CLIN TRANSL HEPATO. 2024 Oct;12(11):917 IF, WB ;Mouse. 39544244