bs-10411R **[Primary Antibody]**

Cyclooxygenase 2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5743 **SWISS:** P35354

Target: Cyclooxygenase 2

Immunogen: KLH conjugated synthetic peptide derived from human Cyclooxygenase 2: 301-400/604.

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]

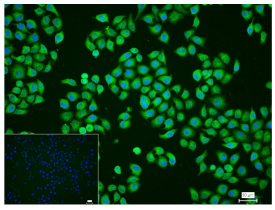
Applications: **Flow-Cyt** (1µg/Test)
ICC/IF (1:50-200)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 65 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Cyclooxygenase 2) polyclonal Antibody, unconjugated (bs-10411R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

SELECTED CITATIONS

- **[IF=8.2]** Lin Peng. et al. Bisphenol A exposure exacerbates tracheal inflammatory injury in selenium-deficient chickens by regulating the miR-155/TRAF3/ROS pathway. INT J BIOL MACROMOL. 2023 Dec;253:127501 WB ;Chicken. 37866585
- **[IF=7.129]** Xiao Wang. et al. Salvia miltiorrhiza polysaccharides alleviate florfenicol-induced inflammation and oxidative stress in chick livers by regulating phagosome signaling pathway. ECOTOX ENVIRON SAFE. 2023 Jan;249:114428 IHC ;Chicken. 36516627
- **[IF=7]** Xinyi Cheng. et al. Sodium Butyrate Alleviates Free Fatty Acid-Induced Steatosis in Primary Chicken Hepatocytes via Regulating the ROS/GPX4/Ferroptosis Pathway. ANTIOXIDANTS-BASEL. 2024 Feb;13(2):140 WB ;Chicken. 10.3390/antiox13020140

- **[IF=5.4]** Yahui Dong. et al. Zhisou powder displays therapeutic effect on chronic bronchitis through inhibiting PI3K/Akt/HIF-1α/VEGFA signaling pathway and reprograming metabolic pathway of arachidonic acid. J ETHNOPHARMACOL. 2024 Jan;319:117110 WB,IHC,IF ;Rat. 37673198
- **[IF=4.522]** Xiao L et al. Dihydrotestosterone synthesis in the sheep corpus luteum and its potential mechanism in luteal regression. J Cell Physiol. 2019 Jan 22. WB ;Sheep. 30671954