

Anti-COX-2 Rabbit Monoclonal Antibody (RM348)

CATALOG NO.: A1853-50 50 µL.

BACKGROUND DESCRIPTION: COX proteins are membrane-associated heme proteins that have cyclooxygenase and peroxidase activities. These enzymes are targets of NSAID (Nonsteroidal anti-inflammatory drugs) such as aspirin. Prostaglandins (PGs) formed by the enzymatic activity of COX-1 are primarily involved in the regulation of homeostatic functions throughout the body, whereas PGs formed by COX-2 primarily mediate pain, fever, and inflammation. COX-1 is constitutively expressed, with particularly high expression in gastrointestinal tissues. COX-2 is induced by cytokines and mitogens and is likely to play a role in inflammatory diseases such as rheumatoid arthritis. In rodents and humans, COX-3 encodes proteins with completely different amino acid sequences than COX-1 or COX-2 and without COX activity. It has been suggested COX-3 as the key to unlocking the mystery of the mechanism of action of acetaminophen.

ANTIBODY TYPE: Monoclonal

CLONE: RM348

HOST/ISOTYPE: Rabbit / Rabbit IgG.

IMMUNOGEN: A peptide corresponding to the C-terminus of human COX-2.

PURIFICATION: Protein A affinity purified from an animal origin-free culture supernatant.

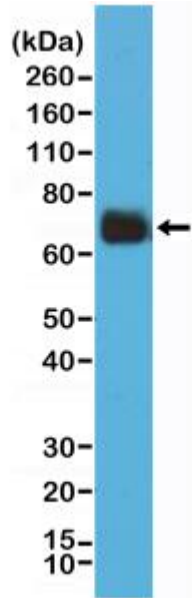
FORM: Liquid.

FORMULATION: 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide

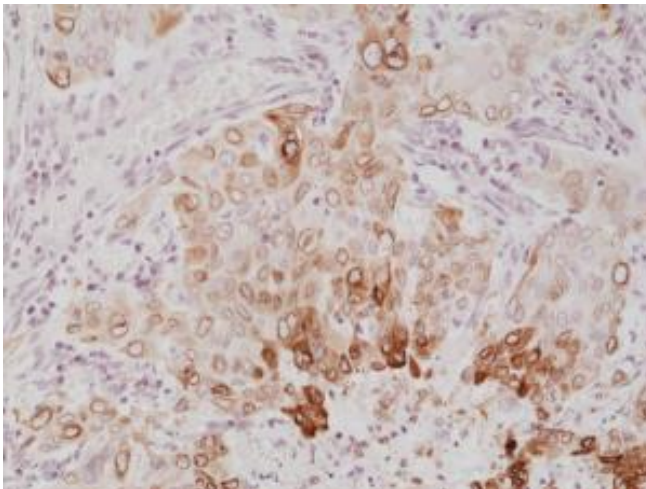
SPECIES REACTIVITY: Human.

STORAGE CONDITIONS: Store at -20°C; Avoid repeated freeze / thaw cycles.

APPLICATIONS AND USAGE: IHC: 1:500-1:1000.
Western Blot: 1:1000-1:20000.



Western Blot of HeLa cell lysate using anti-COX-2 rabbit monoclonal antibody (Clone RM348) at a 1:20000 dilution.



Immunohistochemical staining of formalin fixed and paraffin embedded human lung cancer tissue section using anti-COX-2 rabbit monoclonal antibody (Clone RM348) at a 1:1000 dilution.

RELATED PRODUCTS:

- Cox-3 Antibody (Cat# 3687).
- Cox-2 Antibody (Cat# 3362R).
- Cox-1 Antibody (Cat# 3361).

FOR RESEARCH USE ONLY! Not to be used on humans.