

Product datasheet

Anti-Cox-3 antibody ab37269

1 References

Overview

Product name	Anti-Cox-3 antibody
Description	Rabbit polyclonal to Cox-3
Host species	Rabbit
Specificity	ab37269 recognizes COX-3.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse
Immunogen	Synthetic peptide corresponding to residues from the N-terminus of Cox-3 (Mouse).
Positive control	mouse small intestinal tissue

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Thimerosal (merthiolate) Constituents: 1% BSA, 50% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab37269** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 4 µg/ml. Predicted molecular weight: 30 kDa.

Target

Relevance

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 from COX-1 or COX-2, and without COX activity. COX-3 is thought to be a splice variant of COX-1 which retains intron one. It has been suggested that COX-3 may be the key to unlocking the mechanism of action of acetaminophen.

Cellular localization

Membrane-associated; Microsomal membrane.

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