



PRODUCT DATA SHEET

Product: Anti-Human Cyclooxygenase II (COX II) - FITC, Clone AS66

Cat. No: MC-452 (100 tests)

Background:

Cyclooxygenase (COX), also known as Prostaglandin H2 synthase and Prostaglandin endoperoxide synthase, is a key enzyme in the conversion arachidonic acid to Prostaglandin H2. Prostaglandin H2 is converted by other enzymes into inflammatory mediators prostaglandin (PG) D2, PGE2, PGF2a, PGI2 and Thromboxane A2. Thus, COX is a key enzyme in the production of inflammatory agents and is the target of intense research and drug discovery activities. There are two enzymes of COX, COX-1 and COX-2. COX-1 is constitutively produced in many (most) cell types. It is important in the gut for the production of prostaglandins, which inhibit gastric secretion. It can be induced in monocytes, macrophages and other cells. It is induced as part of the inflammatory response by IL-1beta and other cytokines. It is induced by growth factors such as EGF and PDGF. Expression is inhibited by glucocorticosteroids such as cortisol and dexamethasone. Lipopolysaccharide in bacterial infections induces COX-2. COX-2 is also found in elevated levels in synoviocytes from rheumatoid arthritis patients. The discomforts of inflammation such as pain and swelling are largely due to the action of prostaglandins produced by COX-2.

Ig Isotype: IgG1

Format:

FITC-labeled, purified antibody in PBS with 0.05% sodium azide.

Storage and Stability:

Antibodies should be stored at 4-8°C for short periods. For longer storage aliquot and freeze at -30°C.

Applications and Suggested Dilutions:

■ Flow Cytometry

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.