



Cox-2 (AS67): sc-52759

BACKGROUND

Prostaglandins are a diverse group of autocrine and paracrine hormones that mediate many cellular and physiologic processes. Prostaglandin H₂ (PGH₂) is an intermediate in formation of the prostaglandins. Two prostaglandin synthases that catalyze the formation of PGH₂ from arachidonic acid (AA) are Cyclooxygenase-1 and Cyclooxygenase-2. Cyclooxygenase-2, or Cox-2, is efficiently induced in migratory cells responding to pro-inflammatory stimuli and is considered to be an important mediator of inflammation. An alternative form of the protein, designated Cox-1, is constitutively expressed in most tissues and is thought to serve in general "housekeeping" functions. Both enzymes are targets for the nonsteroidal therapeutic anti-inflammatory drugs, NSAIDs.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PTGS2 (human) mapping to 1q25.2-q25.3; Ptgs2 (mouse) mapping to 1 H1.

SOURCE

Cox-2 (AS67) is a mouse monoclonal antibody raised against recombinant Cox-2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as fluorescein conjugate for flow cytometry, sc-52759 FITC, 100 tests.

APPLICATIONS

Cox-2 (AS67) is recommended for detection of Cox-2 of human origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

Molecular Weight of Cox-2: 70-72 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.