Cox-2 (M-19): sc-1747

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

CHROMOSOMAL LOCATION
Genetic locus: PTGS2 (human) mapping to 1q31.1; Ptgs2 (mouse) mapping to 11.31. Cox-2 (M-19) is available as either goat (sc-1747) or rabbit (sc-1747-R) polyclonal affinity purified antibody raised against a peptide mapping at the C-terminus of Cox-2 of mouse origin.

PRODUCT
Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SOURCE
Cox-2 (M-19) is available as either goat (sc-1747) or rabbit (sc-1747-R) polyclonal affinity purified antibody raised against a peptide mapping at the C-terminus of Cox-2 of mouse origin.

APPLICATIONS
Cox-2 (M-19) is recommended for detection of Cox-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (starting dilution 1:50, dilution range 1:50-1:150) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:150).

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

DATA
Western blot analysis of Cox-2 expression in uninduced (A) and LPS + PMA-treated (B) RAW 264.7 whole cell lysates. Antibodies tested include Cox-2 (C-20: sc-1745 [A,B]) and Cox-2 (M-19: sc-1747 [C,D]).

SELECT PRODUCT CITATIONS

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