

PTGS2 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4411
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human PTGS2 (AA: 18-207) expressed in E. Coli.
Mol wt	69kDa
Species reactivity	Others
Clonality	Monoclonal
Recommended application	ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	COX2;COX-2;PHS-2;PGG/HS;PGHS-2;hCox-2;GRIPGHS

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis.

Recommended Dilution

WB: 1:500 - 1:2000

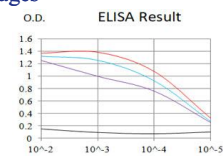
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

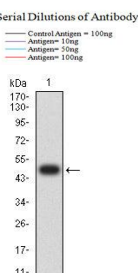
ELISA: 1:10000

Not yet tested in other applications.

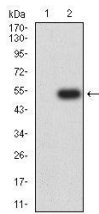
Images



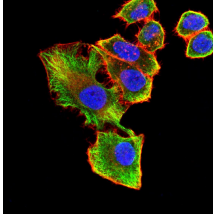
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



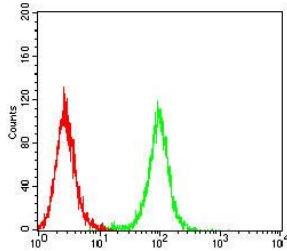
Western blot analysis using PTGS2 mAb against human PTGS2 (AA: 18-207) recombinant protein. (Expected MW is 47.8 kDa)



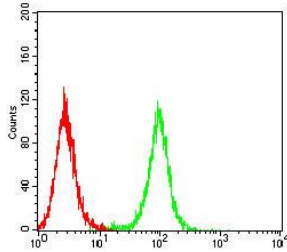
Western blot analysis using PTGS2 mAb against HEK293-6e (1) and human PTGS2 (AA: 18-207)-hlgGFc transfected HEK293-6e (2) cell lysate.



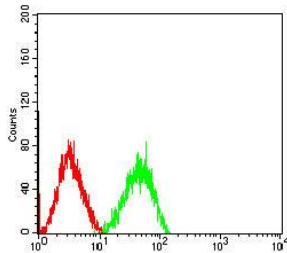
Immunofluorescence analysis of HeLa cells using PTGS2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of HeLa cells using PTGS2 mouse mAb (green) and negative control (red).



Flow cytometric analysis of HepG2 cells using PTGS2 mouse mAb (green) and negative control (red).



Flow cytometric analysis of HT-29 cells using PTGS2 mouse mAb (green) and negative control (red).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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