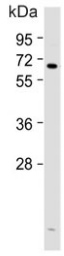
Cyclooxygenase 2 Antibody / COX2 / PTGS2 (F54601)

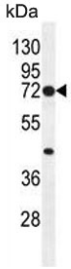
Catalog No.	Formulation	Size
F54601-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54601-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

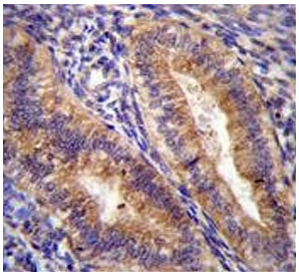
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
UniProt	P35354
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Immunofluorescence : 1:25
Limitations	This Cyclooxygenase 2 antibody is available for research use only.



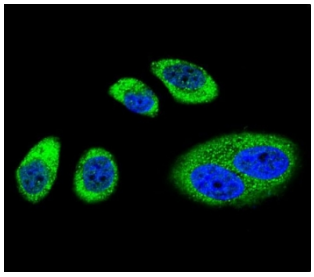
Western blot testing of human HACAT cell lysate with Cyclooxygenase 2 antibody. Predicted molecular weight ~69 kDa.



Western blot testing of human HeLa cell lysate with Cyclooxygenase 2 antibody. Predicted molecular weight ~69 kDa.



IHC testing of FFPE human uterus tissue with Cyclooxygenase 2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human A549 cells with Cyclooxygenase 2 antibody (green) and DAPI nuclear stain (blue).

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Cyclooxygenase 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 363-391 from the human protein was used as the immunogen for the Cyclooxygenase 2 antibody.

Storage

Aliquot the Cyclooxygenase 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.