

# anti-human Cox-1 (Anti Cyclooxygenase-1)

## monoclonal Antibody to Cox-1(human)

Cat-No: **21411131**

100 µg in 100µl

**Clone:** 5F6/F4

**Introduction:** Cyclooxygenases (COX) are 72-kDa, intraluminal residents of the endoplasmic reticulum (ER) and nuclear envelope, where they catalyze the rate-limiting steps in the conversion of arachidonate to the physiologically dynamic prostanoids (Ballif et al. 1996). Numerous investigations have shown that the isoform COX-1 is not a participant in the pathway of inflammation process (Marnett 2000) and colon carcinogenesis (Prescott & Fitzpatrick 2000). Although research on COX-2 inhibitors has focussed mainly on inflammation and pain, experimental and epidemiological data suggest that NSAID (Non steroidal anti-inflammatory drugs) should be used without any effect on COX-1 in the treatment or prevention of a broader range of diseases (Marnett & Kalgutkar 1999).

**Product description:** Monoclonal antibody (mab) 5F6/F4 recognizes the constitutively isoform of the intracellular Cyclooxygenase, Cox-1, selectively. The mab binds to a linear epitope and can be applied for ELISA and Western blot. The mab reacts with both cyclooxygenase-1 from murine and human cells.

**Specific data:** Anti COX-1 mab 5F6/F4 (IgG1<sub>κ</sub>)

**Purity:** Mouse immunoglobulin (FCS free) affinity purified.

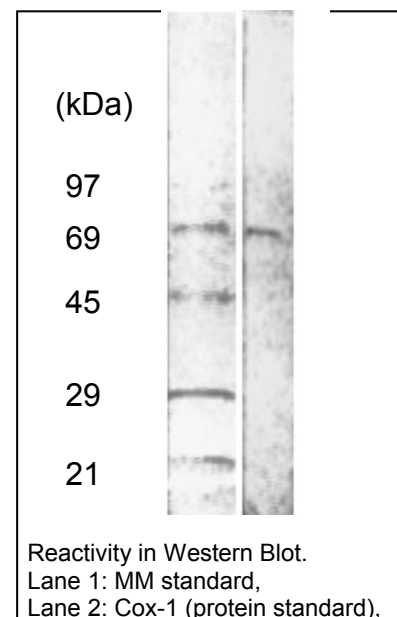
**Cross-reactivity:** No cross-reactivity with Cox-2.

**Stability and storage:**

Solution of 1 mg/ml, stable for 6 months at -20 °C.

**Applications:**

The recommended dilution is 0.1-0.05 µg/ml for ELISA and 1.0-0.5 µg/ml for Western blot.



**References**

Ballif BA, Mincek NV, Barratt JT, Wilson ML, Simmons DL (1996): Interaction of cyclooxygenases with an apoptosis- and autoimmunity-associated protein. Proc Natl Acad Sci U S A. 93:5544-5549.

Marnett LJ (2000): Cyclooxygenase mechanisms. Curr Opin Chem Biol. 4:545-552. Review.

Prescott SM, Fitzpatrick FA (2000): Cyclooxygenase-2 and carcinogenesis. BBA 27:69-78. Review.

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink, and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for research only. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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Gladiolenweg 2; 26169 Friesoythe; Germany

phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)

[www.immunotools.com](http://www.immunotools.com)