



Qty: 100 µg/200 µl

Mouse anti-COX-1

For Research Use Only

Catalog No. 35-8100

Lot No.

Mouse anti-COX-1

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: COX 111

ISOTYPE: Mouse IgG_{2b}K

IMMUNOGEN

Ram testes.

SPECIFICITY

This antibody recognizes ovine, human, mouse, and rat COX-1, appearing as a 72 kDa band by Western blot analysis.

REACTIVITY

Reactivity has been confirmed by Western blot analysis with human platelets, mouse macrophages, and rat macrophages. This antibody will cross-react to a moderate degree with ovine COX-2, and minimally with human COX-2.

Sample	Immuno-histochemistry (frozen)	Immuno-histochemistry (paraffin)	Immuno-fluorescence	Western Blotting	ELISA
Human	+++	+++	+++	+++	+++
Mouse	+++	+++	+++	+++	+++
Rat	+++	+++	+++	+++	+++
Ovine	+++	+++	+++	+++	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1.0 µg/ml

Immunohistochemistry: 10-20 µg/m

Immunofluorescence: 10-20 µg/m

Western Blotting: 2.5-5 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

Cyclooxygenases 1 and 2 (COX-1, COX-2) are enzymes involved in the conversion of arachidonate to prostaglandins². COX-1 and COX-2 are very similar in structure and function, though they vary in expression. COX-1 is normally expressed in most cell types, whereas COX-2 expression is at low levels unless induced by hormonal stimuli^{1,2}. The apparent molecular weight of COX-1 appears to be around 72 kDa¹.

REFERENCES

1. Charpigny, et al. *Endocrinology* 138(5):2163-2171, 1997.
2. Ballif, et al. *PNAS* 93:5544-5549, 1996.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-COX-2	COX 229	32-8200
Rabbit anti-Phosphoserine (PS)	Z-PS1	61-8100
Rabbit anti-Phosphothreonine (PT)	Z-PT1	71-8200
Rabbit anti-Phosphotyrosine (PY)	Z-PY1	61-5800
Mouse anti-Phosphotyrosine (PY-Plus)	(cocktail)	13-6600
PS/PT/PY Sampler Pack		90-0200
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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