

Product Information Sheet



Polyclonal Anti-Cyclooxygenase-2, COX-2

Catalogue No. PA1211

Lot No. 09B01

Ig type rabbit IgG

Size 100µg/vial

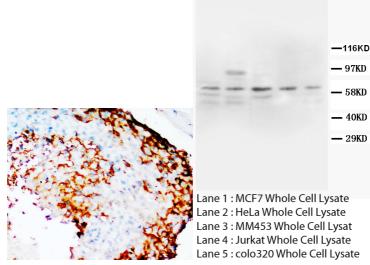
Specificity

Human, mouse, rat. No cross reactivity with other proteins.

Recommended application Western blot Immunohistochemistry(P)

Toll Free: 1(866)964-2589

email: Info@antageneinc.com



Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human COX-2, different to the related rat sequence by two amino acids.

Purity

Immunogen affinity purified.

Application

	Concen- tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	1-2µg/ml	Hu	-	By Heat
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

To reorder contact us at: Optimal di Antagene, Inc. Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

BACKGROUND

Cyclooxygenase (Cox) is the key enzyme in conversion of arachidonic acid to PGs, and two isoforms, Cox-1 and Cox-2, have been identified.¹ Cox-2 gene encodes an inducible prostaglandin synthase enzyme that is overexpressed in adenocarcinomas and other tumors. Deletion of the murine Cox-2 gene in Min mice reduced the incidence of intestinal tumors, suggesting that it is required for tumorigenesis.² This gene is localized to sites associated with retinal blood vessels, and plays an important role in blood vessel formation in the retina.³ And the glucocorticoid receptor suppression of COX-2 is also crucial for curtailing lethal immune activation, and suggest new therapeutic approaches for regulation of T-cell-mediated inflammatory diseases.⁴

REFERENCE

1. Salmenkivi, K.; Haglund, C.; Ristimaki, A.; Arola, J.; Heikkila, P. : Increased expression of cyclooxygenase-2 in malignant pheochromocytomas. *J. Clin. Endocr. Metab.* 86: 5615-5619, 2001.

2. Liu, C. H.; Chang, S.-H.; Narko, K.; Trifan, O. C.; Wu, M.-T.; Smith, E.; Haudenschild, C.; Lane, T. F.; Hla, T. : Overexpression of cyclooxygenase-2 is sufficient to induce tumorigenesis in transgenic mice. *J. Biol. Chem.* 276: 18563-18569, 2001.

3. Wilkinson-Berka, J. L.; Alousis, N. S.; Kelly, D. J.; Gilbert, R. E. : COX-2 inhibition and retinal angiogenesis in a mouse model of retinopathy of prematurity. *Invest. Ophthal. Vis. Sci.* 44: 974-979, 2003.

4. Brewer, J. A.; Khor, B.; Vogt, S. K.; Muglia, L. M.; Fujiwara, H.; Haegele, K. E.; Sleckman, B. P.; Muglia, L. J. : T-cell glucocorticoid receptor is required to suppress COX-2-mediated lethal immune activation. *Nature Med.* 9: 1318-1322, 2003.