

Product Datasheet

COX-2 Antibody NB110-1948

Unit Size: 0.05 ml

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NB110-1948

COX-2 Antibody

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	Serum
Purity	Unpurified
Buffer	Antiserum

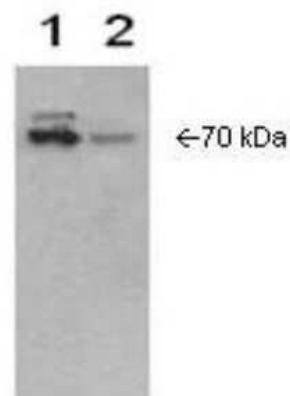
Product Description	
Description	This antiserum is directed against human Cox-2 Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Rabbit
Gene ID	5743
Gene Symbol	PTGS2
Species	Human, Mouse, Rat
Reactivity Notes	Reactivity against homologues from other sources is not known
Specificity/Sensitivity	This antiserum is directed against human COX-2. Two different isoforms of the enzyme are known, Cox-1 and COX-2. A BLAST analysis was used to suggest cross-reactivity with COX-2 in human, mouse and rat based on a homology with the immunizing sequence and should not cross react with Cox-1. Reactivity against homologues from other sources is not known. Reactivity of this antibody with COX-2 from other species is unknown
Immunogen	This whole rabbit serum was prepared by repeated immunizations with a fusion protein corresponding to the carboxy-terminus of human COX-2. (Uniprot: P35354)

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1:5000-1:10000, ELISA 1:10000-1:50000, Immunohistochemistry 1:10-1:500
Application Notes	Cox-2 (Cyclooxygenase-2) is an inducible enzyme that is normally absent from cells, however, in response to growth factors, tumor promoters and some cytokines, it undergoes a rapid and transient expression. This antiserum against Human Cox-2 and has been tested for use in immunoblotting. The antibody recognizes Cox-2 at 70kDa in Sf9 cell lines transfected with Cox-2 as well as in WISH cells induced with IL-1b. Reactivity in other immunoassays is unknown.

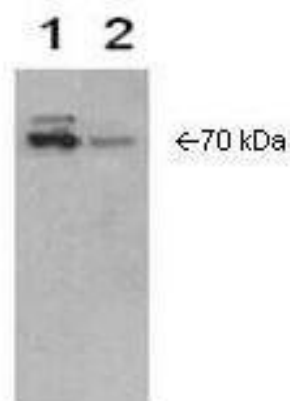


Images

Western Blot: COX-2 Antibody [NB110-1948] - COX-2 antibody is shown to detect COX-2 present in COX-2 transfected Sf9 cell extract (lane 1) and IL-1beta induced WISH cell extract (lane 2). Detection occurs using a 1:10,000 dilution of antibody followed by 1:10,000 dilution of HRP Goat-a-Rabbit with visualization via ECL. Film exposure approximately 1'. Other detection systems will yield similar results.



anti-Cox2 is shown to detect Cox-2 present in Cox-2 transfected Sf9 cell extract (lane 1) and IL-1beta induced WISH cell extract (lane 2). Detection occurs using a 1:10,000 dilution of antibody followed by 1:10,000 dilution of HRP Goat-a-Rabbit with visualization via ECL. Film exposure approximately 1'. Other detection systems will yield similar results.



Publications

Le Q, Zhang Z, Sun D et al. Anti-inflammatory activities of two new deoxygenated N-acetyl glucosamines in lipopolysaccharide-activated mouse macrophage RAW264.7 cells Heliyon 2023-05-01 [PMID: 37159698] (WB, Mouse)

Yeo IJ, Yun J, Son DJ et al. Antifungal drug miconazole ameliorated memory deficits in a mouse model of LPS-induced memory loss through targeting iNOS Cell Death Dis 2020-08-14 [PMID: 32796824] (WB, Mouse)

Uram L, Misiorek M, Pichla M et al. The Effect of Biotinylated PAMAM G3 Dendrimers Conjugated with COX-2 Inhibitor (celecoxib) and PPAR gamma Agonist (Fmoc-L-Leucine) on Human Normal Fibroblasts, Immortalized Keratinocytes and Glioma Cells in Vitro Molecules 2019-10-22 [PMID: 31652556] (WB, Human)

Khan OM, Akula MK, Skalen K et al. Targeting GGTase-I Activates RHOA, Increases Macrophage Reverse Cholesterol Transport, and Reduces Atherosclerosis in Mice. Circulation 2013-02-19 [PMID: 23334894] (WB, Mouse)

Tong M, Tai HH, et al. Induction of NAD(+)-linked 15-hydroxyprostaglandin dehydrogenase expression by androgens in human prostate cancer cells. Biochem Biophys Res Commun 2000-09-01 [PMID: 11006085]



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Products Related to NB110-1948

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP1-85499PEP	COX-2 Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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