

Human/Mouse COX-1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 596002 Catalog Number: MAB37401

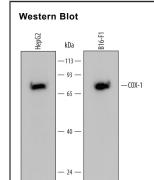
DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human COX-1 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) COX-4I1 and no cross-reactivity with rhCOX-1 or rhCOX-4I2 is observed.	
Source	Monoclonal Mouse IgG _{2B} Clone # 596002	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E.coli-derived recombinant human COX-1 Asn381-Leu599 Accession # P23219	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA



Detection of Human and Mouse COX-1 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and B16-F10 mouse melanoma cell line. PVDF Membrane was probed with 2 µg/mL of Human COX-1 Monoclonal Antibody (Catalog # MAB37401) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for COX-1 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND	STORAGE	Ē
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Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

COX-1 is an approximately 70 kDa protein that is associated with microsomal membranes. COX-1 participates in the synthesis of prostaglandins and is the enzymatic target of non-steroidal anti-inflammatory drugs. A splice variant of COX-1 is generated by internal deletion of 37 residues. Human COX-1 shares 88%-90% amino acid sequence identity with mouse and rat COX-1.

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