

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human COX-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Semaphorin 3A, 3B, 6B, 6C, 6D, recombinant mouse Semaphorin 3A, 3B, 3E, 3F, 6A, or 7A is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 345305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human COX-1 Ala24-Leu599 Accession # P23219
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HUVEC human umbilical vein endothelial cells

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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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