**Product Datasheet**

# Cox1 Antibody

Catalog No: #33344

Package Size: #33344-1 50ul #33344-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

## Description

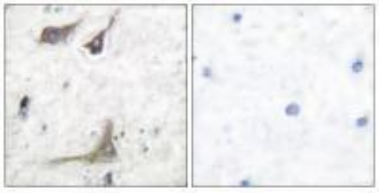
| | |
|---|---|
| Product Name | Cox1 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Applications | WB IHC |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous levels of total COX1 protein. |
| Immunogen Type | Peptide |
| Immunogen Description | Synthesized peptide derived from human COX1. |
| Target Name | Cox1 |
| Other Names | COX3; PCOX1; CYCLOOXYGENASE 1; PARTIAL COX1 PROTEINS; PGHS1 CYCLOOXYGENASE 3 |
| Accession No. | Swiss-Prot: P23219NCBI Gene ID: 5742 |
| Uniprot | P23219 |
| GeneID | 5742; |
| SDS-PAGE MW | 70kd |
| Concentration | 1.0mg/ml |
| Formulation | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

## Application Details

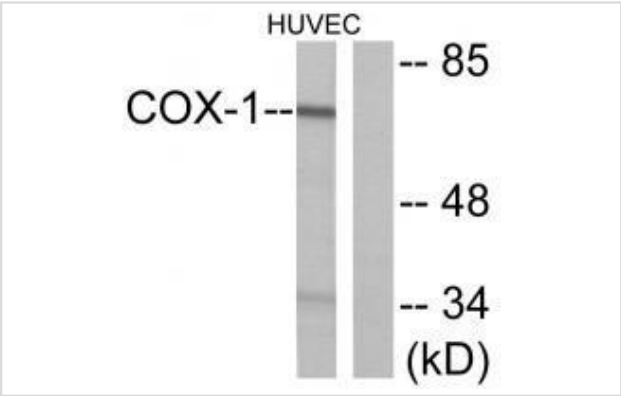
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

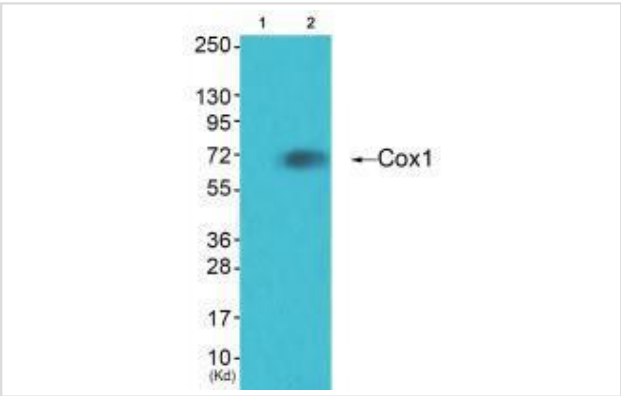
## Images



Immunohistochemical analysis of paraffin-embedded human brain tissue using COX1 antibody #33344.




Western blot analysis of extracts from HuvEc cells, using COX1 antibody #33344.




Western blot analysis of extracts from HuvEc cells (Lane 2), using Cox1 antiobdy #33344. The lane on the left is treated with systhesized peptide.

## Background

Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Involved in the constitutive production of prostanoids in particular in the stomach and platelets. In gastric epithelial cells, it is a key step in the generation of prostaglandins, such as prostaglandin E2 (PGE2), which plays an important role in cytoprotection. In platelets, it is involved in the generation of thromboxane A2 (TXA2), which promotes platelet activation and aggregation, vasoconstriction and proliferation of vascular smooth muscle cells.

Lawrence M. Szewczuk, J. Biol. Chem., May 2004; 279: 22727 - 22737.

Syed R. Baber, Am J Physiol Heart Circ Physiol, Oct 2005; 289: H1476 - H1487.

Subhashini Chandrasekharan, J. Lipid Res., Dec 2005; 46: 2636 - 2648.

K. Trent Moreland, J. Pharmacol. Exp. T

Note: This product is for in vitro research use only