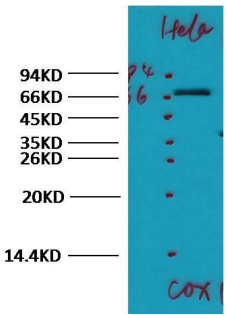
ELK Biotechnology

COX1/Cyclooxygenase 1 Rabbit pAb
Catalog NO.: EA023
For research use only.

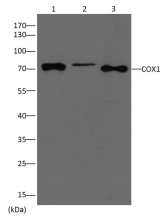
Overview

Product name	COX1/Cyclooxygenase 1 Rabbit polyclonal antibody
Source	Rabbit
Applications	**WB, IHC**
Species reactivity	**Human**
Recommended dilutions	**WesternBlot:1/1000** **Immunohistochemistry:1/100** **NOTE: Optimal dilutions should be determined by the end user.**
Immunogen	Synthetic Peptide
Species	Human
Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.4. Store at -20° C. Avoid repeated freeze-thaw cycles.
Isotype	IgG
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	**70kDa**
GeneID（Human）	5742
Human Swiss-Prot No.	P23219
Cellular localization	Endoplasmic reticulum, Membrane, Microsome
Alternative Names	N/A
Background	Cyclooxygenase-1 (COX-1), also known as prostaglandin G/H synthase 1, prostaglandin-endoperoxide synthase 1 or prostaglandin H2 synthase 1, is an enzyme that in humans is encoded by the PTGS1 gene. There are two isozymes of COX encoded by distinct gene products: a constitutive COX-1 (this enzyme) and an inducible COX-2, which differ in their regulation of expression and tissue distribution. The expression of these two transcripts is differentially regulated by relevant cytokines and growth factors. A splice

variant of COX-1 termed COX-3 was identified in the CNS of dogs, but does not result in a functional protein in humans. Two smaller COX-1-derived proteins (the partial COX-1 proteins PCOX-1A and PCOX-1B) have also been discovered, but their precise roles are yet to be describedGalectin 3 is one of the more extensively studied members of this family and is a 30 kDa protein. Due to a C-terminal carbohydrate binding site, Galectin 3 is capable of binding IgE and mammalian cell surfaces only when homodimerized or homooligomerized. Galectin 3 is normally distributed in epithelia of many organs, in various inflammatory cells, including macrophages, as well as dendritic cells and Kupffer cells. The expression of this lectin is up-regulated during inflammation, cell proliferation, cell differentiation and through trans-activation by viral proteins.



Western blot analysis of Hela with COX1 Rabbit Polyclonal antibody diluted at 1:1,000.



Western blot analysis of extracts from MCF-7 (Lane 1),MG63 (Lane 2), Min6 (Lane 3), using COX1 diluted at 1:1,000.