

CDO1 Rabbit pAb

Catalog No: #C06019



Package Size: #C06019-1 50ul #C06019-2 100ul

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Description

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| Product Name | CDO1 Rabbit pAb |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Purification | Purified by Protein A. |
| Applications | WB, IHC-P, IHC-F, IF, ELISA |
| Species Reactivity | Human, Mouse, Rat |
| Target Name | CDO1 |
| Other Names | Cysteine Dioxygenase Type 1; CDO 1; CDO; CDO I; CDO1; CDO-1; CDOI; Cytosolic cysteine dioxygenase; CDO1_HUMAN. |
| Concentration | 1mg/ml |
| Formulation | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| Storage | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |

Application Details

WB=1:500-2000, IHC-P=1:100-500,

IHC-F=1:100-500, IF=1:100-500

Background

CDO1 (cysteine dioxygenase, type I) is a 200 amino acid protein that belongs to the cysteine dioxygenase family and is involved in organosulfur biosynthesis. Existing as a monomer and expressed at high levels in liver and placenta and at lower levels in brain, pancreas and heart, CDO1 functions as a dioxygenase that uses iron and zinc as cofactors to catalyze the conversion of L-cysteine and oxygen to 3-sulfinoalanine. Via its catalytic activity, CDO1 is involved in pyruvate-, sulfate- and taurine-related metabolic pathways and is a crucial regulator of cysteine concentrations within the cell. Human CDO1 shares 94% amino acid identity with its rat counterpart, suggesting a conserved role between species. The gene encoding CDO1 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome. Pathway: Organosulfur biosynthesis; taurine biosynthesis; hypotaurine from L-cysteine: step 1 2.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.