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Datasheet for ABIN715063

**anti-CD01 antibody (AA 101-200) (Biotin)**

## Overview

Quantity:	100 µL
Target:	CD01
Binding Specificity:	AA 101-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD01 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD01
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Dog, Cow, Sheep, Horse, Chicken, Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	CD01
Alternative Name:	CD01 ( <a href="#">CD01 Products</a> )
Background:	Synonyms: Cysteine Dioxygenase Type 1, CDO 1, CDO, CDO I, CD01, CDO-1, CDOI, Cytosolic

## Target Details

cysteine dioxygenase, CDO1\_HUMAN.

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-sulfinioalanine. 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.

Gene ID: 1036

## Application Details

Application Notes: WB 1:300-5000  
IHC-P 1:200-400  
IHC-F 1:100-500

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Handling

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Storage Comment: Store at -20°C for 12 months.

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Expiry Date: 12 months