

CDO1 Recombinant monoclonal antibody

Catalog Number: 85636-2-RR

Basic Information

Catalog Number:

85636-2-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3294

GenBank Accession Number:

BC024241

GeneID (NCBI):

1036

UNIPROT ID:

Q16878

Full Name:

cysteine dioxygenase, type I

Calculated MW:

200 aa, 23 kDa

Observed MW:

23 kDa

Purification Method:

Protein A purification

CloneNo.:

250039D9

Recommended Dilutions:

WB: 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : rat liver tissue, mouse liver tissue

Background Information

CDO1(cysteine dioxygenase type 1) is also named as CDO and belongs to the cysteine dioxygenase family. It is an enzyme that adds molecular oxygen to the sulfur of cysteine, converting the thiol to a sulfinic acid known as cysteinesulfinic acid (3-sulfinioalanine) and CDO 1 is one of the most highly regulated metabolic enzymes responding to diet(PMID:19011731). The expression of CDO can significantly decrease the level of intracellular cysteine and this reduction is also associated with a decrease in total glutathione levels(PMID:17327371). Cysteine dioxygenase (CDO) plays a critical role in the regulation of cellular cysteine concentration and multiple forms of CDO (23 kDa, 25 kDa, and 68 kDa) have been claimed based upon separation and detection using SDS-PAGE/western blotting(PMID: 14752623).

Storage

Storage:

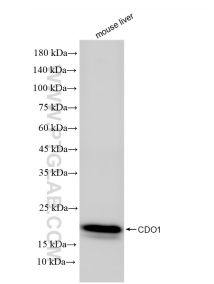
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

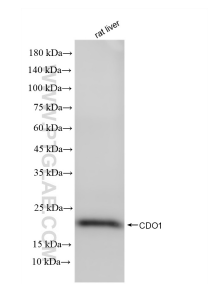
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

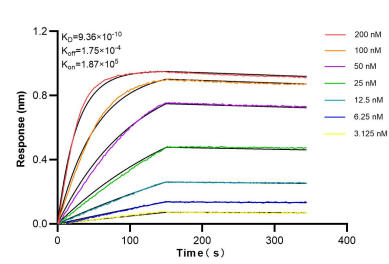
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85636-2-RR (CDO1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



rat liver tissue were subjected to SDS PAGE followed by western blot with 85636-2-RR (CDO1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85636-2-RR against Human CDO1 were performed. The affinity constant is 0.936 nM.