

Cysteine dioxygenase type 1 Polyclonal Antibody

Catalog number: 12589-1-AP

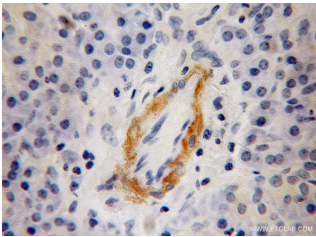
Size: 20 µg/150 µl

Source: Rabbit

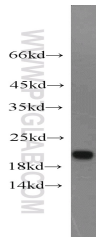
Isotype: IgG

Synonyms:

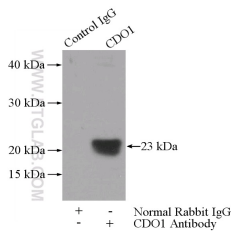
CDO1; CDO, CDO I, CDO1,
Cysteine dioxygenase type 1,
cysteine dioxygenase, type I



Immunohistochemical of paraffin-embedded human pancreas cancer using 12589-1-AP (CDO1 antibody) at dilution of 1:100 (under 10x lens)



mouse liver tissue were subjected to SDS PAGE followed by western blot with 12589-1-AP (CDO1 antibody) at dilution of 1:600



IP Result of anti-CDO1 (IP:12589-1-AP, 3µg; Detection:12589-1-AP 1:600) with mouse liver tissue lysate 4000µg.

Background

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 CDO1 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).

Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated Cysteine dioxygenase type 1 MW:	200aa,23 kDa
Observed Cysteine dioxygenase type 1 MW:	23 kDa
Positive WB detected in	Mouse liver tissue, rat liver tissue
Positive IP detected in	Mouse liver tissue
Positive IHC detected in	Human pancreas cancer tissue, human liver cancer tissue, human placenta tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3294
GenBank accession number:	BC024241
Gene ID (NCBI):	1036
Full name:	Cysteine dioxygenase, type I

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.