

DCTD Monoclonal antibody

Catalog Number: 68357-1-Ig 1 Publications

Basic Information

Catalog Number: 68357-1-Ig	GenBank Accession Number: BC001286	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 1635	CloneNo.: 3D2G12
Source: Mouse	UNIPROT ID: P32321	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: dCMP deaminase	
Immunogen Catalog Number: AG10245	Calculated MW: 178 aa, 20 kDa Observed MW: 18-20 kDa	

Applications

Tested Applications: IF/ICC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : A549 cells, U2OS cells, HeLa cells, LNCaP cells, HEK-293 cells, Jurkat cells, K-562 cells
Species Specificity: Human	IF/ICC : HepG2 cells,
Cited Species: human	

Background Information

DCTD(Deoxycytidylate deaminase) is also named as dCMP deaminase and belongs to the cytidine and deoxycytidylate deaminase family. It catalyzes the deamination of dCMP to dUMP, thus providing the nucleotide substrate for thymidylate synthase. Control of deaminase activity at this juncture in deoxyribonucleotide metabolism is determined by the ratio of dCTP to dTTP in the cell, since the enzyme is allosterically activated by dCTP and inhibited by dTTP(PMID:7685356). It has 2 isoforms produced by alternative splicing and can exist as a dimer(PMID:8798492).

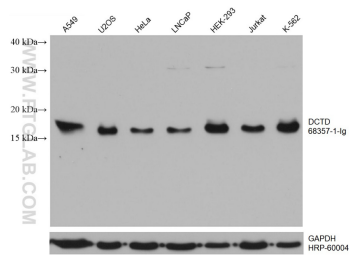
Notable Publications

Author	Pubmed ID	Journal	Application
Ying Zhao	38398624	Molecules	WB

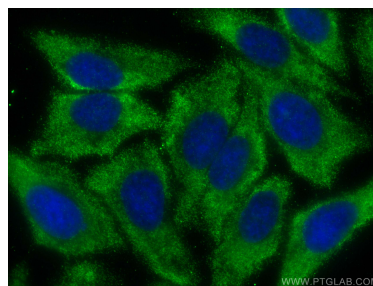
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68357-1-Ig (DCTD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using DCTD antibody (68357-1-Ig, Clone: 3D2G12) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).