

For Research Use Only

# DCTD Monoclonal antibody, PBS Only



Catalog Number: 68357-1-PBS

## Basic Information

<b>Catalog Number:</b> 68357-1-PBS	<b>GenBank Accession Number:</b> BC001286	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 1635	<b>CloneNo.:</b> 3D2G12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P32321	
<b>Isotype:</b> IgG1	<b>Full Name:</b> dCMP deaminase	
<b>Immunogen Catalog Number:</b> AG10245	<b>Calculated MW:</b> 178 aa, 20 kDa	
	<b>Observed MW:</b> 18-20 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA, IF

**Species Specificity:**  
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).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

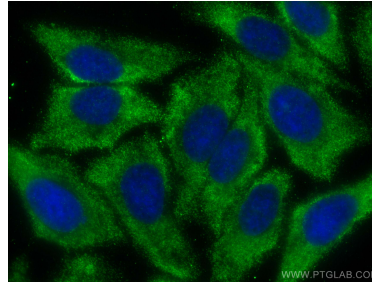
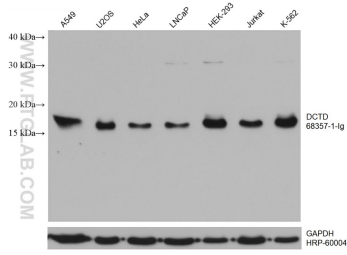
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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. This data was developed using the same antibody clone with 68357-1-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 68357-1-PBS in a different storage buffer formulation.