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DCTD Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DCTD.
Catalog # AT1721a

Product Information

Application	WB, IHC, E
Primary Accession	P32321
Other Accession	NM_001921.2
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	4B9
Calculated MW	20016

Additional Information

Gene ID	1635
Other Names	Deoxycytidylate deaminase, dCMP deaminase, DCTD
Target/Specificity	DCTD (NP_001912.2, 69 a.a. ~ 178 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DCTD Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

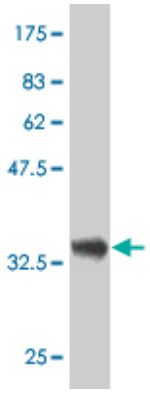
The protein encoded by this gene catalyzes the deamination of dCMP to dUMP, the nucleotide substrate for thymidylate synthase. The encoded protein is allosterically activated by dCTP and inhibited by dTTP, and is found as a homohexamer. This protein uses zinc as a cofactor for its activity. Two transcript variants encoding different isoforms have been found for this gene.

References

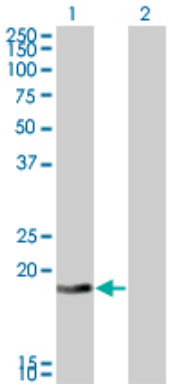
Gemcitabine metabolic and transporter gene polymorphisms are associated with drug toxicity and efficacy in patients with locally advanced pancreatic cancer. Tanaka M, et al. Cancer, 2010 Jul 21. PMID 20665488.Single nucleotide polymorphisms of gemcitabine metabolic genes and pancreatic cancer survival

and drug toxicity. Okazaki T, et al. Clin Cancer Res, 2010 Jan 1. PMID 20028759.An association between RRM1 haplotype and gemcitabine-induced neutropenia in breast cancer patients. Rha SY, et al. Oncologist, 2007 Jun. PMID 17602053.Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.Immunoaffinity profiling of tyrosine phosphorylation in cancer cells. Rush J, et al. Nat Biotechnol, 2005 Jan. PMID 15592455.

Images

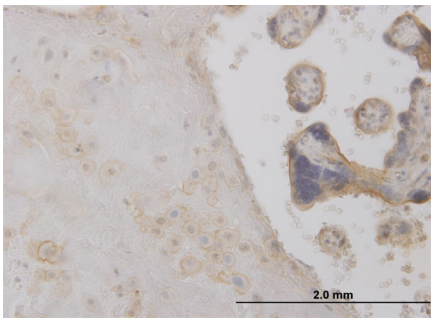


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

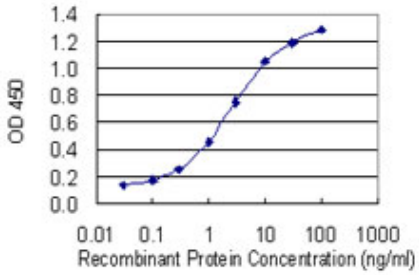


Western Blot analysis of DCTD expression in transfected 293T cell line by DCTD monoclonal antibody (M01), clone 4B9.

Lane 1: DCTD transfected lysate(20.016 KDa).
Lane 2: Non-transfected lysate.

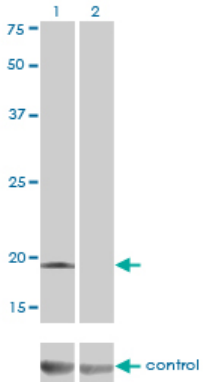


Immunoperoxidase of monoclonal antibody to DCTD on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged DCTD is 0.03 ng/ml as a capture antibody.

Western blot analysis of DCTD over-expressed 293 cell line, cotransfected with DCTD Validated Chimera RNAi ((Cat # AT1721a)



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.