

Anti-DNPH1 Rabbit Monoclonal Antibody

Catalog # ABO16159

Product Information

Application	WB, IHC
Primary Accession	O43598
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-DNPH1 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human.

Additional Information

Gene ID	10591
Other Names	5-hydroxymethyl-dUMP N-hydrolase, 3.2.2.-, 2'-deoxynucleoside 5'-phosphate N-hydrolase 1 {ECO:0000312 HGNC:HGNC:21218}, c-Myc-responsive protein RCL, DNPH1 (HGNC:21218)
Calculated MW	19108
Application Details	WB 1:500-1:2000 IHC 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names Immunogen	Clone: 27D38 A synthesized peptide derived from human DNPH1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	DNPH1 (HGNC:21218)
Function	Part of a nucleotide salvage pathway that eliminates epigenetically modified 5-hydroxymethyl-dCMP (hmdCMP) in a two-step process entailing deamination to cytotoxic 5-hydroxymethyl-dUMP (hmdUMP), followed by its

hydrolysis into 5-hydroxymethyluracil (hmU) and 2-deoxy-D-ribose 5-phosphate (deoxyribosephosphate) (PubMed:[33833118](#)). Catalyzes the second step in that pathway, the hydrolysis of the N-glycosidic bond in hmdUMP, degrading this cytotoxic nucleotide to avoid its genomic integration (PubMed:[33833118](#)).

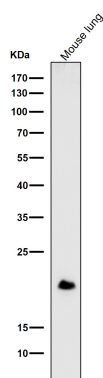
Cellular Location

Cytoplasm. Nucleus

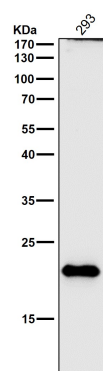
Tissue Location

Expressed at low levels in brain, colon, lung, peripheral blood leukocytes, placenta, small intestine, and thymus Expressed at high levels in heart, kidney, liver, skeletal muscle and spleen. Overexpressed in a significant proportion of breast cancers

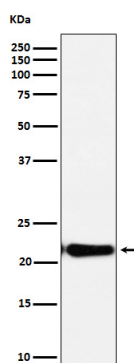
Images



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



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Western blot analysis of DNPH1 expression in HeLa cell lysate.

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