



DNPH1 Rabbit mAb

Catalog No	YP-rAb-17681
Isotype	IgG
Reactivity	Human
Applications	WB,IHC
Gene Name	DNPH1;C6orf108;RCL
Protein Name	5-hydroxymethyl-dUMP N-hydrolase;2'-deoxynucleoside 5'-phosphate N-hydrolase 1;c-Myc-responsive protein RCL;
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:1000-5000; IHC 1:100-300 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	DNPH1 ; C6orf108 ; RCL ; 5-hydroxymethyl-dUMP N-hydrolase ; 2'-deoxynucleoside 5'-phosphate N-hydrolase 1 ; c-Myc-responsive protein RCL ;
Observed Band	19kD
Calculated Molecular Weight	
Cell Pathway	Cytoplasm. Nucleus.
Tissue Specificity	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. {ECO:0000269 PubMed:18726892}.
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). {ECO:0000269 PubMed:33833118}.





Background

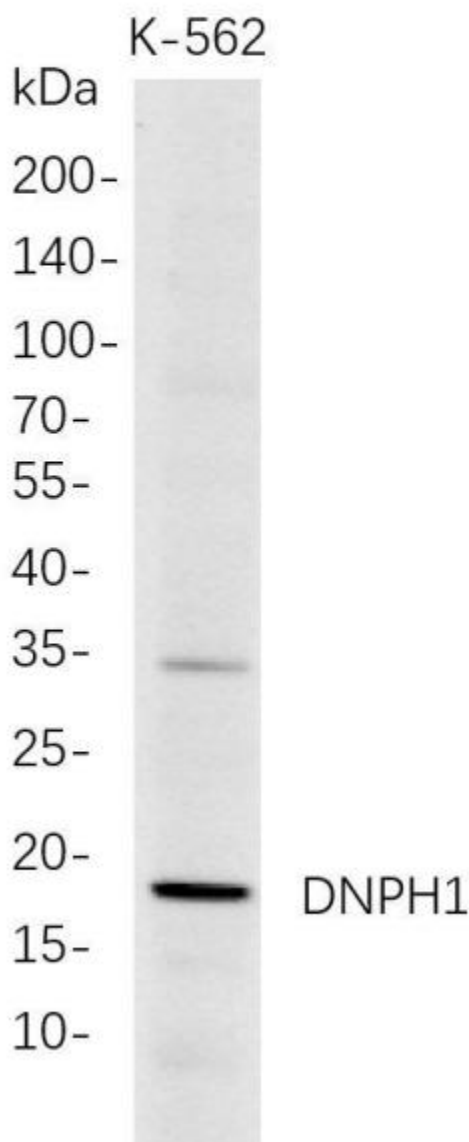
This gene was identified on the basis of its stimulation by c-Myc protein. The latter is a transcription factor that participates in the regulation of cell proliferation, differentiation, and apoptosis. The exact function of this gene is not known but studies in rat suggest a role in cellular proliferation and c-Myc-mediated transformation. Two alternative transcripts encoding different proteins have been

matters needing attention

described. [provided by RefSeq, Jul 2008],
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Western Blot analysis of K-562 whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-DNPH1 rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.

