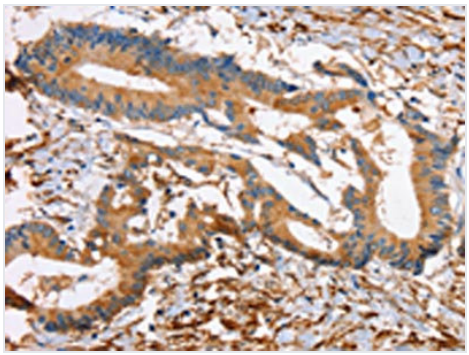
DPYSL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DPYSL2, Polyclonal Antibody
Full Product Name	DPYSL2 Antibody
Product Gene Name	anti-DPYSL2 antibody
Product Synonym Names	dihydropyrimidinase-like 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	62,294 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (26371709..26515693). Location: 8p22-p21
OMIM	602463
3D Structure	ModBase 3D Structure for Q16555
Immunogen	Synthetic peptide of human DPYSL2
Immunogen Species	Human
Conjugate	Non-conjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DPYSL2 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-DPYSL2 antibody	ELISA: 1:1000-1:5000 WB: 1:200-1:1000 IHC: 1:25-1:100
Related Product Information for anti-DPYSL2 antibody	MBS7126999 is an antibody targeting DPYSL2. Also known as DPYSL2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-DPYSL2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-DPYSL2 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using MBS7126999(DPYSL2 Antibody) at dilution 1/45, on the right is treated with synthetic peptide. (Original magnification: ×200)



SDS-Page of anti-DPYSL2 antibody
Gel: 8%SDS-PAGE, Lysate: 30 ug, Lane: NIH/3T3 cells, Primary antibody: MBS7126999(DPYSL2 Antibody) at dilution 1/400, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 15 seconds

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPYSL2. It may not necessarily be applicable to this product.

NCBI GI #	308818195
NCBI GeneID	1808
NCBI Accession #	NP_001184222.1
UniProt Primary Accession #	Q16555
UniProt Secondary Accession #	O00424; A8K5H2; B4DR31; D3DSS7
UniProt Related Accession #	Q16555
GenBank Nucleotide #	NM_001197293.2
NCBI Official Full Name	dihydropyrimidinase-related protein 2 isoform 1
NCBI Official Synonym Full Names	dihydropyrimidinase-like 2
NCBI Official Symbol	DPYSL2
NCBI Official Synonym Symbols	DRP2; N2A3; CRMP2; DRP-2; ULIP2; CRMP-2; DHPRP2; ULIP-2
UniProt Protein Name	Dihydropyrimidinase-related protein 2
UniProt Synonym Protein Names	Collapsin response mediator protein 2; CRMP-2; N2A3; Unc-33-like phosphoprotein 2
Protein Family	Dihydropyrimidinase-related protein
UniProt Gene Name	DPYSL2
UniProt Synonym Gene Names	CRMP2; ULIP2; DRP-2; CRMP-2; ULIP-2
UniProt Entry Name	DPYL2_HUMAN
NCBI Protein Information	dihydropyrimidinase-related protein 2; unc-33-like phosphoprotein 2; collapsin response mediator protein hCRMP-2
NCBI Summary for DPYSL2	This gene encodes a member of the collapsin response mediator protein family. Collapsin response mediator proteins form homo- and hetero-tetramers and facilitate neuron guidance, growth and polarity. The encoded protein promotes microtubule assembly and is required for Sema3A-mediated growth cone collapse, and also plays a role in synaptic signaling through interactions with calcium channels. This gene has been implicated in multiple neurological disorders, and hyperphosphorylation of the encoded protein may play a key role in the development of Alzheimer's disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

UniProt Comments for DPYSL2	CRMP-2: a microtubule-binding protein necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, neuronal growth cone collapse and cell migration. Homotetramer, and heterotetramer with CRMP1, CRMP-3, CRMP-4, or CRMP-5. Interacts through its C-terminus with the C-terminus of CYFIP1. Interacts with 5-hydroxytryptamine receptor 4 (5-HT(4)). Protein type: Motility/polarity/chemotaxis; Microtubule-binding Chromosomal Location of Human Ortholog: 8p22-p21 Cellular Component: microtubule; growth cone; cell soma; membrane; mitochondrion; dendrite; terminal button; cytosol Molecular Function: protein binding; dihydropyrimidinase activity; protein kinase binding Biological Process: response to drug; nervous system development; axon guidance; olfactory bulb development; response to amphetamine; synaptic vesicle transport; positive regulation of glutamate secretion; endocytosis; cytoskeleton organization and biogenesis; response to cocaine; signal transduction; pyrimidine base catabolic process; spinal cord development; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
Research Articles on DPYSL2	**1.** No Alzheimer disease-associated differences in CNP and DPYSL2 promoter DNA methylation were observed.
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