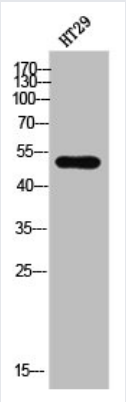
# DPYSL2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | DPYSL2, Polyclonal Antibody |
| **Full Product Name** | DPYSL2 Antibody |
| **Product Gene Name** | anti-DPYSL2 antibody |
| **Product Synonym Names** | DPYSL2; CRMP2; ULIP2; Dihydropyrimidinase-related protein 2; DRP-2; Collapsin response mediator protein 2; CRMP-2; N2A3; Unc-33-like phosphoprotein 2; ULIP-2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **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** | Synthesized peptide derived from human CRMP-2 around the non-phosphorylation site of T509. |
| **Immunogen Species** | Human |
| **Conjugate** | Non-conjugated |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-DPYSL2 antibody** | Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA) |
| **Application Notes for anti-DPYSL2 antibody** | WB: 1:500-1:2000<br>IHC: 1:100-1:300<br>ELISA: 1:20000 |
| **Related Product Information for anti-DPYSL2 antibody** | MBS7118129 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. |




**Western Blot (WB) of anti-DPYSL2 antibody**
Western Blot analysis of HT-29 cells using CRMP-2 Polyclonal Antibody

## ADDITIONAL DETAILS

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

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| **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] |

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| **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)).<br><br>Protein type: Motility/polarity/chemotaxis; Microtubule-binding<br><br>Chromosomal Location of Human Ortholog: 8p22-p21<br><br>Cellular Component: microtubule; growth cone; cell soma; membrane; mitochondrion; dendrite; terminal button; cytosol<br><br>Molecular Function: protein binding; dihydropyrimidinase activity; protein kinase binding<br><br>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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