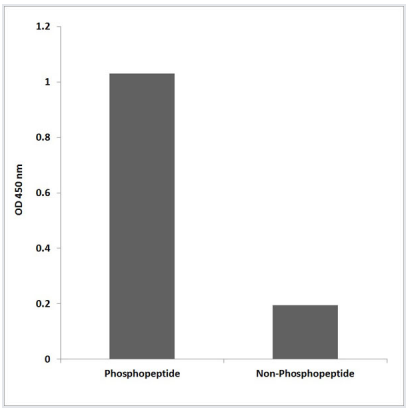
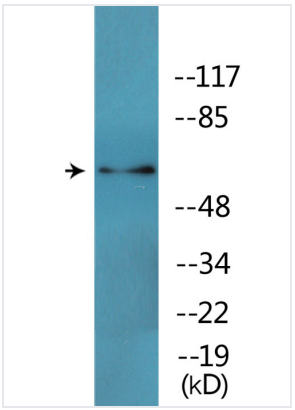
CRMP-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CRMP-2, Polyclonal Antibody
Full Product Name	CRMP-2 (Phospho-Thr509) Antibody
Product Gene Name	anti-CRMP-2 antibody
Product Synonym Gene Name	DPYSL2
Product Synonym Names	Collapsin response mediator protein 2; CRMP2; Dihydropyrimidinase related protein-2; DPYL2; DPYSL2; DRP-2; N2A3; TOAD-64; Turned on after division; 64 kDa protein; ULIP 2 protein; ULIP2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (Phospho-without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Concentration	1 mg/ml (lot specific)
Specificity	CRMP-2 (Phospho-Thr509) Antibody detects endogenous levels of DPYSL2 only when phosphorylated at Thr509.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	62 kDa
OMIM	U17279 mRNA
3D Structure	ModBase 3D Structure for Q16555
Target Modification	Phospho
Modification Sites	H:T509; M:T509; R:T509
Immunogen	The antiserum was produced against synthesized phospho-peptide derived from human CRMP-2 around the phosphorylation site of Thr509.
Applications Tested/Suitable for anti-CRMP-2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CRMP-2 antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:10000
Related Product Information for anti-CRMP-2 antibody	MBS9508585 is an antibody targeting CRMP-2. Also known as CRMP-2 (Phospho-Thr509) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CRMP-2 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.



ELISA (EIA) of anti-CRMP-2 antibody
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CRMP-2 (Phospho-Thr509) Antibody



Western Blot (WB) of anti-CRMP-2 antibody
Western blot analysis of lysates from HT29 cells treated with heat shock, using CRMP-2 (Phospho-Thr509) Antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRMP-2. 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; ULIP-2
UniProt Gene Name	DPYSL2
UniProt Synonym Gene Names	CRMP2; ULIP2; DRP-2; CRMP-2; ULIP-2
NCBI Protein Information	dihydropyrimidinase-related protein 2
NCBI Summary for CRMP-2	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 CRMP-2	Plays a role in neuronal development and polarity, as well as in axon growth and guidance, neuronal growth cone collapse and cell migration. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. May play a role in endocytosis.
Research Articles on CRMP-2	**1.** crystal structure of human tetrameric CRMP-2

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