PR15B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PR15B, Polyclonal Antibody
Full Product Name	PR15B, CT (PPP1R15B, Protein phosphatase 1 regulatory subunit 15B) (MaxLight 550)
Product Gene Name	anti-PR15B antibody
Product Synonym Gene Name	PPP1R15B
Product Synonym Names	PPP1R15B; Protein phosphatase 1 regulatory subunit 15B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	79152
OMIM	613257
3D Structure	ModBase 3D Structure for Q5SWA1
Immunogen	PR15B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 593-622 amino acids from the C-terminal region of human PR15B.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PR15B antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PR15B antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-PR15B antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-PR15B antibody	PPP1R15B promotes dephosphorylation of the transcription initiation factor EIF2-alpha (EIF2S1; MIM 603907) through recruitment of protein phosphatase-1 (PP1) catalytic subunits (see MIM 176875) (Harding et al., 2009 [PubMed 19181853]).[supplied by OMIM].
Product References and Citations for anti-PR15B antibody	Harding, H.P., et al. Proc. Natl. Acad. Sci. U.S.A. 106(6):1832-1837(2009). Colland, F., et al. Genome Res. 14(7):1324-1332(2004). Ceulemans, H., et al. Bioessays 24(4):371-381(2002).

Other Notes	Small volumes of anti-PR15B 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.
Searchable Terms for PR15B purchase	MBS6336859 is an antibody targeting PR15B. Also known as PR15B, CT (PPP1R15B, Protein phosphatase 1 regulatory subunit 15B) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PR15B. It may not necessarily be applicable to this product.

NCBI GI #	188219559
NCBI GeneID	84919
NCBI Accession #	NP_116222.3
UniProt Primary Accession #	Q5SWA1
UniProt Secondary Accession #	Q53GQ4; Q658M2; Q6P156; Q96SN1
UniProt Related Accession #	Q5SWA1
GenBank Nucleotide #	NM_032833.3
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 15B
NCBI Official Synonym Full Names	protein phosphatase 1, regulatory subunit 15B
NCBI Official Symbol	PPP1R15B
NCBI Official Synonym Symbols	CREP
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 15B
UniProt Gene Name	PPP1R15B
UniProt Entry Name	PR15B_HUMAN
NCBI Protein Information	protein phosphatase 1 regulatory subunit 15B
NCBI Summary for PR15B	PPP1R15B promotes dephosphorylation of the transcription initiation factor EIF2-alpha (EIF2S1; MIM 603907) through recruitment of protein phosphatase-1 (PP1) catalytic subunits (see MIM 176875) (Harding et al., 2009 [PubMed 19181853]).[supplied by OMIM, Feb 2010]
UniProt Comments for PR15B	PPP1R15B: Maintains low levels of EIF2S1 phosphorylation in unstressed cells by promoting its dephosphorylation by PP1. Belongs to the PPP1R15 family. Protein type: Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: protein phosphatase type 1 complex Molecular Function: protein binding; protein serine/threonine phosphatase activity Biological Process: regulation of translation; response to hydrogen peroxide; ER overload response
Research Articles on PR15B	**1.** the mammalian traffic machinery co-opts p-eIF2alpha and CReP, regulators of translation initiation.
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