UBE2R2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	UBE2R2, Blocking Peptide
Full Product Name	UBE2R2 Blocking Peptide
Product Gene Name	UBE2R2 blocking peptide
Product Synonym Names	CDC34B; E2 CDC34B; E2 ubiquitin conjugating enzyme R2; FLJ20419; MGC10481; UB2R2; UB2R2_HUMAN; UBC3B; UBE2R2; Ubiquitin carrier protein R2; Ubiquitin conjugating enzyme E2 CDC34B; Ubiquitin conjugating enzyme E2 R2; Ubiquitin conjugating enzyme E2R 2; Ubiquitin conjugating enzyme UBC3B; Ubiquitin protein ligase R2; Ubiquitin-conjugating enzyme E2 R2; Ubiquitin-conjugating enzyme E2-CDC34B; Ubiquitin-protein ligase R2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	UBE2R2 peptide (MBS9622516) is used for blocking the activity of UBE2R2 antibody (MBS9603798)
Molecular Weight	27,166 Da
OMIM	612506
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for UBE2R2 blocking peptide	Blocking/Control
Related Product Information for UBE2R2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of UBE2R2 blocking peptide 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 UBE2R2 purchase	MBS9622516 is a blocking peptide targeting UBE2R2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2R2. It may not necessarily be applicable to this product.

NCBI GI #	22212943
NCBI GeneID	54926
NCBI Accession #	NP_060281.2
UniProt Primary Accession #	Q712K3

UniProt Secondary Accession #	Q9NX64; D3DRL5
UniProt Related Accession #	Q712K3
GenBank Nucleotide #	NM_017811.3
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 R2
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2R 2
NCBI Official Symbol	UBE2R2
NCBI Official Synonym Symbols	UBC3B; CDC34B; E2-CDC34B
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 R2
UniProt Synonym Protein Names	Ubiquitin carrier protein R2; Ubiquitin-conjugating enzyme E2-CDC34B; Ubiquitin-protein ligase R2
Protein Family	Ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2R2
UniProt Synonym Gene Names	CDC34B; UBC3B
UniProt Entry Name	UB2R2_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 R2; ubiquitin carrier protein R2; ubiquitin-conjugating enzyme E2-CDC34B; ubiquitin-conjugating enzyme UBC3B; ubiquitin-protein ligase R2
NCBI Summary for UBE2R2	Protein kinase CK2 is a ubiquitous and pleiotropic Ser/Thr protein kinase involved in cell growth and transformation. This gene encodes a protein similar to the E2 ubiquitin conjugating enzyme UBC3/CDC34. Studies suggest that CK2-dependent phosphorylation of this ubiquitin-conjugating enzyme functions by regulating beta-TrCP substrate recognition and induces its interaction with beta-TrCP, enhancing beta-catenin degradation. [provided by RefSeq, Jul 2008]
UniProt Comments for UBE2R2	UBC3B: an E2 ubiquitin conjugating enzyme similar to UBC3/CDC34. Phosphorylation of UBC3B by CK2 induces its interaction with beta-TrCP, regulating beta-TrCP substrate recognition and enhancing beta-catenin degradation. Protein type: Ubiquitin ligase; Ligase; Ubiquitin conjugating system; EC 6.3.2.19 Chromosomal Location of Human Ortholog: 9p13.3 Cellular Component: cytoplasm Molecular Function: small conjugating protein ligase activity; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; ATP binding; ligase activity Biological Process: protein monoubiquitination; proteasomal ubiquitin-dependent protein catabolic process
Research Articles on UBE2R2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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