RHD Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	RHD, Blocking Peptide
Full Product Name	RHD Peptide - C-terminal region
Product Gene Name	RHD blocking peptide
Product Synonym Gene Name	RP11-335G20.5; CD240D; DIIIc; MGC165007; RH; RH30; RHCED; RHDVA(TT); RHDel; RHPII; RHXIII; Rh4; RhDCw; RhII; RhK562-II; RhPI
Sequence	DYHMNMMHIY VFAAYFGLSV AWCLPKPLPE GTEDKDQTAT IPSLSAMLGA
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	RHD peptide (MBS3240775) is used for blocking the activity of RHD antibody (MBS3215873)
Molecular Weight	31kDa
Product Categories/Family for RHD blocking peptide	Peptide
Applications Tested/Suitable for RHD blocking peptide	Western Blot (WB)
Related Product Information for RHD blocking peptide	This is a synthetic peptide designed for use in combination with anti-RHD Antibody, made Target Description: The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups, with variations due to deletions, gene conversions, and missense mutations. The Rh blood group includes this gene, which encodes the RhD protein, and a second gene that encodes both the RhC and RhE antigens on a single polypeptide. The two genes, and a third unrelated gene, are found in a cluster on chromosome 1. The classification of Rh-positive and Rh-negative individuals is determined by the presence or absence of the highly immunogenic RhD protein on the surface of erythrocytes. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of RHD 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 RHD purchase	MBS3240775 is a blocking peptide targeting RHD. Also known as RHD Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	182258061
NCBI GeneID	6007
NCBI Accession #	ACB87205
UniProt Primary Accession #	B2LR45
UniProt Related Accession #	Q02161

GenBank Nucleotide #	NM_001127691
NCBI Official Full Name	truncated RHD
NCBI Official Synonym Full Names	Rh blood group D antigen
NCBI Official Symbol	RHD
NCBI Official Synonym Symbols	RH; Rh4; RH30; RhII; RhPI; DIIIc; RHCED; RHDel; RHPII; RhDCw; CD240D; RHXIII; RHDVA(TT); RhK562-II
NCBI Protein Information	blood group Rh(D) polypeptide
NCBI Summary for RHD	The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups, with variations due to deletions, gene conversions, and missense mutations. The Rh blood group includes this gene, which encodes the RhD protein, and a second gene that encodes both the RhC and RhE antigens on a single polypeptide. The two genes, and a third unrelated gene, are found in a cluster on chromosome 1. The classification of Rh-positive and Rh-negative individuals is determined by the presence or absence of the highly immunogenic RhD protein on the surface of erythrocytes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Research Articles on RHD	**1.** 4 novel RHD alleles, each characterized by a single nucleotide substitution were identified. RHD*67T, RHD*173T, and RHD*579C give rise to a weak D phenotypical expression. Their corresponding amino acid changes are predicted to be located in the membrane-spanning or intracellular domains of the RhD protein. RHD*482G is the 4th substitution.
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