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

PRODUCT OVERVIEW

Product Name	LDHB, Blocking Peptide
Full Product Name	LDHB Blocking Peptide
Product Gene Name	LDHB blocking peptide
Product Synonym Names	Epididymis secretory protein Li 281; HEL S 281; L lactate dehydrogenase B chain; L-lactate dehydrogenase B chain; Lactate dehydrogenase H chain; LDH B; LDH H; LDH heart subunit; LDH-B; LDH-H; LDHB; LDHB_HUMAN; LDHBD; LDHH; Renal carcinoma antigen NY REN 46; Renal carcinoma antigen NY-REN-46; TRG-5; TRG5
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	LDHB peptide (MBS9620806) is used for blocking the activity of LDHB antibody (MBS9603329)
Molecular Weight	36,638 Da
OMIM	gene 614128
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 LDHB blocking peptide	Blocking/Control
Related Product Information for LDHB 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 LDHB 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 LDHB purchase	MBS9620806 is a blocking peptide targeting LDHB.

ADDITIONAL DETAILS

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

NCBI GI #	291575128
NCBI GeneID	3945
NCBI Accession #	NP_001167568.1
UniProt Primary Accession #	P07195
UniProt Related Accession #	P07195

GenBank Nucleotide #	NM_001174097.2
NCBI Official Full Name	L-lactate dehydrogenase B chain
NCBI Official Synonym Full Names	lactate dehydrogenase B
NCBI Official Symbol	LDHB
NCBI Official Synonym Symbols	LDH-B; LDH-H; LDHBD; TRG-5; HEL-S-281
UniProt Protein Name	L-lactate dehydrogenase B chain
UniProt Synonym Protein Names	LDH heart subunit; LDH-H; Renal carcinoma antigen NY-REN-46
Protein Family	L-lactate dehydrogenase
UniProt Gene Name	LDHB
UniProt Synonym Gene Names	LDH-B; LDH-H
UniProt Entry Name	LDHB_HUMAN
NCBI Protein Information	L-lactate dehydrogenase B chain; LDH heart subunit; epididymis secretory protein Li 281; lactate dehydrogenase H chain; renal carcinoma antigen NY-REN-46
NCBI Summary for LDHB	This gene encodes an enzyme which catalyzes the reversible conversion of lactate and pyruvate, and NAD and NADH, in the glycolytic pathway. Mutations in this gene are associated with lactate dehydrogenase B deficiency. Pseudogenes have been identified on the X chromosome and on chromosome. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Mar 2010]
Research Articles on LDHB	**1.** We were able to provide evidence that methylation of HLTF and especially HPP1 detected in serum is strongly correlated with cell death in CRC using LDH as surrogate marker
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