LDHC Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	LDHC, Blocking Peptide
Full Product Name	LDHC Immunizing Peptide
Product Gene Name	LDHC blocking peptide
Product Synonym Names	LDHC; MGC111073; lactate dehydrogenase C; LDH3; LDHX; LDHC (aa 221 - 233)
Sequence	C-DSDKEHWK NVHKQ
Species Reactivity	Human, Mouse
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	LDHC peptide (MBS425650) is used for blocking the activity of LDHC antibody (MBS420137)
Molecular Weight	36,311 Da
OMIM	150150
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for LDHC blocking peptide	MBS425650 is a blocking peptide targeting LDHC. Also known as LDHC Immunizing Peptide. Reactive in Human, Mouse.
Other Notes	Small volumes of LDHC 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.

ADDITIONAL DETAILS

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

NCBI GI #	4504973
NCBI GeneID	3948
NCBI Accession #	NP_002292.1
NCBI Related Accession #	NP_059144.1
UniProt Secondary Accession #	Q6GSG8; Q7Z7J4; D3DQY4
UniProt Related Accession #	P07864
GenBank Nucleotide #	NM_002301.4
NCBI Official Full Name	L-lactate dehydrogenase C chain
NCBI Official Synonym Full Names	lactate dehydrogenase C
NCBI Official Symbol	LDHC
NCBI Official Synonym Symbols	CT32; LDH3; LDHX
UniProt Protein Name	L-lactate dehydrogenase C chain
UniProt Synonym Protein Names	Cancer/testis antigen 32; CT32; LDH testis subunit; LDH-X

Protein Family	L-lactate dehydrogenase
UniProt Gene Name	LDHC
UniProt Synonym Gene Names	LDH3; LDHX; LDH-C; CT32
UniProt Entry Name	LDHC_HUMAN
NCBI Protein Information	L-lactate dehydrogenase C chain
NCBI Summary for LDHC	Lactate dehydrogenase C catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. LDHC is testis-specific and belongs to the lactate dehydrogenase family. Two transcript variants have been detected which differ in the 5' untranslated region. [provided by RefSeq, Jul 2008]
UniProt Comments for LDHC	LDH-C: Possible role in sperm motility. Belongs to the LDH/MDH superfamily. LDH family. Protein type: Cancer Testis Antigen (CTA); Carbohydrate Metabolism - glycolysis and gluconeogenesis; Amino Acid Metabolism - cysteine and methionine; Carbohydrate Metabolism - propanoate; Carbohydrate Metabolism - pyruvate; EC 1.1.1.27; Oxidoreductase Chromosomal Location of Human Ortholog: 11p15.1 Cellular Component: cytosol; nucleus Molecular Function: L-lactate dehydrogenase activity Biological Process: ATP biosynthetic process; carbohydrate metabolic process; lactate biosynthetic process from pyruvate; lactate oxidation; pyruvate metabolic process; sperm motility
Research Articles on LDHC	**1.** Down-regulated LDH-C4 expression is significantly correlated with lowered enzyme activity in human spermatozoa.
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