10320 Camino Santa Fe, Suite G
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IVD Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP2974b

Specification

IVD Antibody (C-term) Blocking peptide - Product Information

Primary Accession	P26440
Other Accession	NP_002216

IVD Antibody (C-term) Blocking peptide - Additional Information

Gene ID 3712

Other Names
Isovaleryl-CoA dehydrogenase, mitochondrial, IVD, IVD

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IVD Antibody (C-term) Blocking peptide - Protein Information

Name IVD (HGNC:6186)

Function
Catalyzes the conversion of isovaleryl-CoA/3-methylbutanoyl- CoA to 3-methylbut-2-enoyl-CoA as an intermediate step in the leucine (Leu) catabolic pathway (PubMed:7640268). To a lesser extent, is also able to catalyze the oxidation of other saturated short-chain acyl-CoA thioesters as pentanoyl-CoA, hexenoyl-CoA and butenoyl-CoA (PubMed:7640268).

Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:P12007}

IVD Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

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IVD Antibody (C-term) Blocking peptide - Images

IVD Antibody (C-term) Blocking peptide - Background

Isovaleryl-CoA dehydrogenase (IVD) is a mitochondrialmatrix enzyme that catalyzes the third step in leucine catabolism.The genetic deficiency of IVD results in an accumulation ofisovaleric acid, which is toxic to the central nervous system andleads to isovaleric acidemia. Alternatively spliced transcriptvariants encoding different isoforms have been found for this gene.

IVD Antibody (C-term) Blocking peptide - References

Matsubara, Y., et al. J. Clin. Invest. 85(4):1058-1064(1990)Kraus, J.P., et al. Genomics 1(3):264-269(1987)Ikeda, Y., et al. J. Biol. Chem. 258(2):1077-1085(1983)