

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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](#)

IVD Antibody (C-term) Blocking peptide - Images**IVD Antibody (C-term) Blocking peptide - Background**

Isovaleryl-CoA dehydrogenase (IVD) is a mitochondrial matrix enzyme that catalyzes the third step in leucine catabolism. The genetic deficiency of IVD results in an accumulation of isovaleric acid, which is toxic to the central nervous system and leads to isovaleric acidemia. Alternatively spliced transcript variants 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)