

DATASHEET

IVD Rabbit Polyclonal Antibody

CAT. NO. APA15941

KEY FEATURES

Target	IVD	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

BACKGROUND

A mitochondrial matrix enzyme that catalyzes the third step in leucine catabolism, where isovaleryl-CoA (3-methylbutanoyl-CoA) is metabolized to 3-methylbut-2-enoyl-CoA is metabolized to 3-methylbut-2-enoyl-CoA . To a lesser extent, it also participates in the first step in fatty acid beta-oxidation, in which it catalyzes the proR-proR stereospecific alpha,beta-dehydrogenation of other saturated short-chain acyl-CoA thioesters such as pentanoyl-CoA, hexanoyl-CoA and butanoyl-CoA, using the electron transfer flavoprotein (ETF) as their physiologic electron acceptor.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to IVD
Specificity	Recognizes endogenous levels of IVD protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human IVD. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 42; Observed: 42 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Isovaleryl-CoA dehydrogenase mitochondrial; IVD
Gene Symbol	IVD
Entrez Gene	3712(Human); 56357(Mouse); 24513(Rat)
SwissProt	P26440(Human); Q9JHI5(Mouse); P12007(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

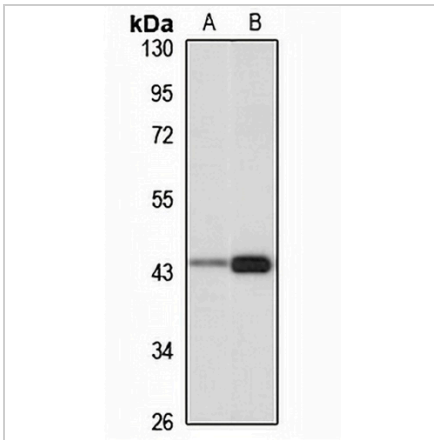
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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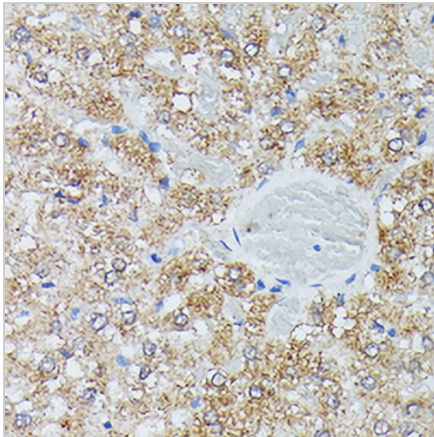
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DATA



Western blot analysis of IVD expression in MCF7 (A), mouse kidney (B) whole cell lysates. (Predicted band size: 42; 46 kD; Observed band size: 42 kD)



Immunohistochemical analysis of IVD staining in rat liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.