

For Research Use Only

# IVD Monoclonal antibody

Catalog Number: 66032-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66032-1-Ig	<b>GenBank Accession Number:</b> BC017202	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3712	<b>CloneNo.:</b> 2D12A5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P26440	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:500-1:2000 IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> isovaleryl Coenzyme A dehydrogenase	
<b>Immunogen Catalog Number:</b> AG18042	<b>Calculated MW:</b> 46 kDa	
	<b>Observed MW:</b> 41-46 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> HEK-293 cells, human liver tissue, MCF-7 cells, Jurkat cells, LO2 cells
<b>Species Specificity:</b> human	<b>IHC :</b> human liver cancer tissue, human liver tissue
<b>Cited Species:</b> rat	<b>IF :</b> human liver cancer tissue, MCF-7 cells

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

IVD(Isovaleryl CoA dehydrogenase, mitochondrial) is a member of the acylCoA dehydrogenase family and is involved in the catabolism of leucine. In size, IVD precursor and mature proteins produced by class I mutants are indistinguishable from their normal counterparts. Class II, III, and IV mutants make IVD precursor proteins 42 kD in size rather than the normal 45 kD(PMID:2063866). It has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hui Liu	26168851	Arch Toxicol	WB

## Storage

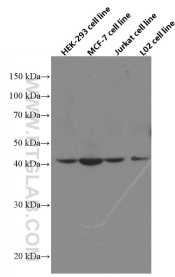
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

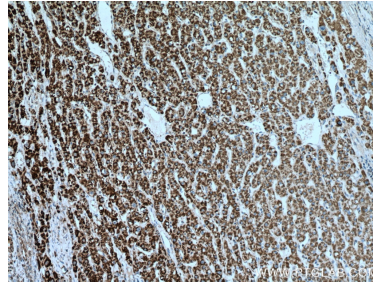
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

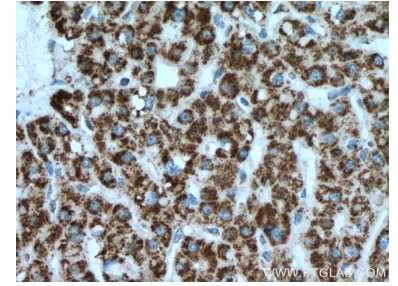
## Selected Validation Data



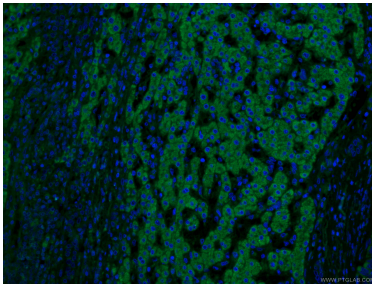
Various lysates were subjected to SDS PAGE followed by western blot with 66032-1-Ig (IVD antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



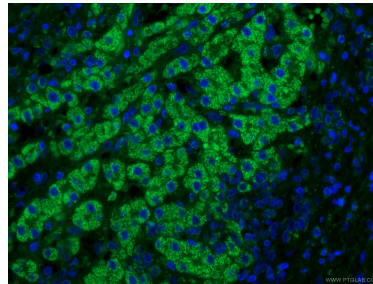
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66032-1-Ig (IVD antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66032-1-Ig (IVD antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using 66032-1-Ig (IVD antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using 66032-1-Ig (IVD antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).