For Research Use Only

IVD Monoclonal antibody

Catalog Number:66032-1-Ig 1 Publications

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Basic Information

Catalog Number:
66032-1-Ig

Size:
150ul , Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG18042

GenBank Accession Number:
BC017202

GeneID (NCBI):
3712

UNIPROT ID:
P26440

Full Name:
isovaleryl Coenzyme A dehydrogenase

Calculated MW:
46 kDa

Observed MW:
41-46 kDa

Purification Method:
Protein A purification

CloneNo.:
2D12A5

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:500-1:2000
IF-P 1:50-1:500
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
rat

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

Positive Controls:

WB : HEK-293 cells, human liver tissue, MCF-7 cells, Jurkat cells, L02 cells

IHC : human liver cancer tissue, human liver tissue

IF-P : human liver cancer tissue,

IF/ICC : MCF-7 cells,

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

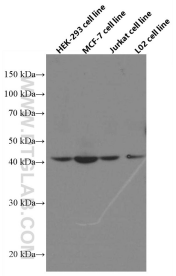
Storage

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

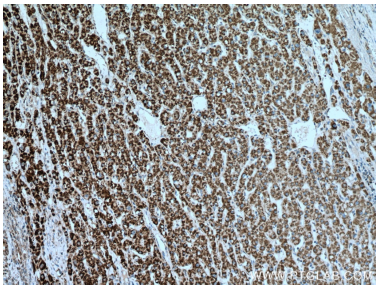
*** 20ul sizes contain 0.1% BSA

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

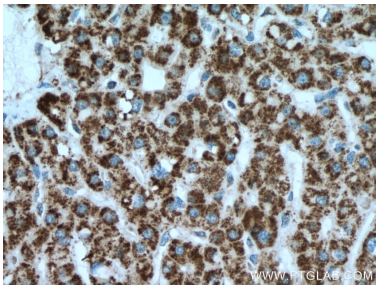
Selected Validation Data



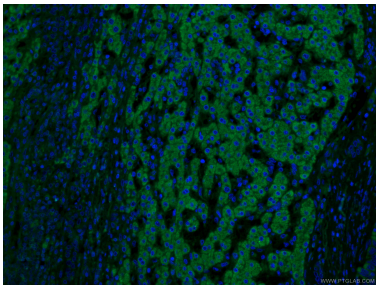
Various lysates were subjected to SDS PAGE followed by western blot with 66032-1-Ig (IVD antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



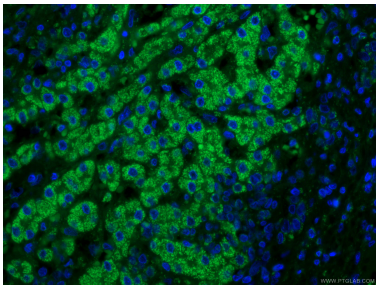
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66032-1-Ig (IVD antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



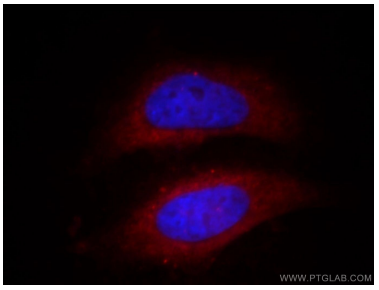
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66032-1-Ig (IVD antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of MCF-7 cells, using IVD antibody 66032-1-Ig at 1:25 dilution and Rhodamine-labeled goat anti-mouse IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).