

For Research Use Only

IVD Polyclonal antibody

Catalog Number: 10822-1-AP **7 Publications**



Basic Information

Catalog Number: 10822-1-AP	GenBank Accession Number: BC017202	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 360 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3712	Recommended Dilutions: WB 1:2000-1:12000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: isovaleryl Coenzyme A dehydrogenase	IHC 1:300-1:1200 IF 1:50-1:500
Isotype: IgG	Calculated MW: 46 kDa	
Immunogen Catalog Number: AG1252	Observed MW: 41-46 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : MCF-7 cells, human brain tissue, mouse liver tissue, HepG2 cells, rat liver tissue
Cited Applications: IHC, WB	IP : MCF-7 cells,
Species Specificity: human, mouse, rat	IHC : human liver cancer tissue,
Cited Species: Arabidopsis, mouse, rat	IF : 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
Min-Zhi Peng	35727412	Cell Mol Life Sci	WB
Danielle S Brito	35031834	Plant Cell Rep	WB
Signe Horn	26649805	Mol Endocrinol	WB

Storage

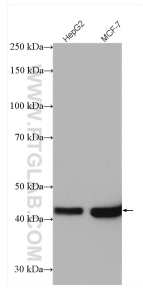
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

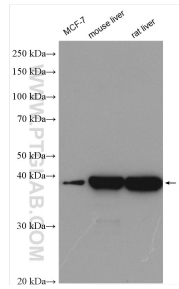
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

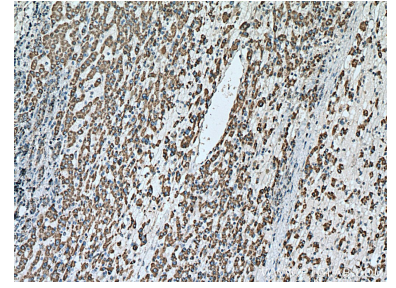
Selected Validation Data



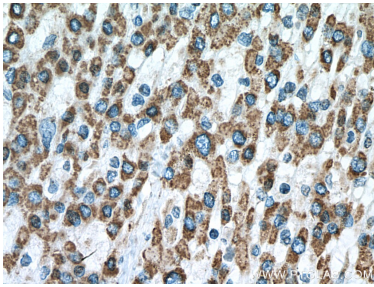
Various lysates were subjected to SDS PAGE followed by western blot with 10822-1-AP (IVD antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



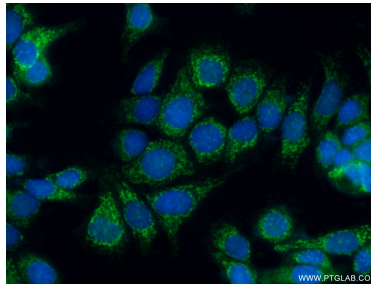
Various lysates were subjected to SDS PAGE followed by western blot with 10822-1-AP (IVD antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



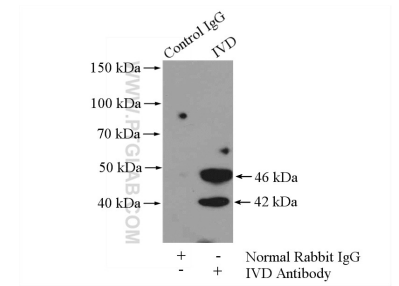
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10822-1-AP (IVD antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10822-1-AP (IVD antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 10822-1-AP (IVD antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-IVD (IP:10822-1-AP, 4ug; Detection:10822-1-AP 1:300) with MCF-7 cells lysate 800ug.