

For Research Use Only

OGDHL Recombinant antibody

Catalog Number: 82981-1-RR



Basic Information

Catalog Number: 82981-1-RR	GenBank Accession Number: BC026320	Purification Method: Protein A purification
Size: 100ul , Concentration: 800 ug/ml by Nanodrop;	GeneID (NCBI): 55753	CloneNo.: 230228B2
Source: Rabbit	UNIPROT ID: Q9ULD0	Recommended Dilutions: IHC 1:200-1:800
Isotype: IgG	Full Name: oxoglutarate dehydrogenase-like	
Immunogen Catalog Number: AG10794	Calculated MW: 1010 aa, 115 kDa	

Applications

Tested Applications: IHC, FC (Intra), ELISA	Positive Controls: IHC : human liver tissue,
Species Specificity: human	
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

OGDHL(oxoglutarate dehydrogenase-like) is also named as KGDE1KL, FLJ10851, KIAA1290 and belongs to the alpha-ketoglutarate dehydrogenase family. OGDHL is one of the rate-limiting component of the multienzyme OGDH complex (OGDHC) whose malfunction is associated with neuro-degeneration and it is localized only in the mitochondrial fraction and not in the cytosolic or nuclear fractions(PMID:23152800). OGDHL negatively regulates cell proliferation by inducing apoptosis in cervical cancer cells. It may thus participate in brain-specific control of 2-oxoglutarate distribution between energy production and synthesis of the neurotransmitter glutamate(PMID:18783430). It has 3 isoforms(114 kDa, 108 kDa, 91 kDa) produced by alternative splicing.

Storage

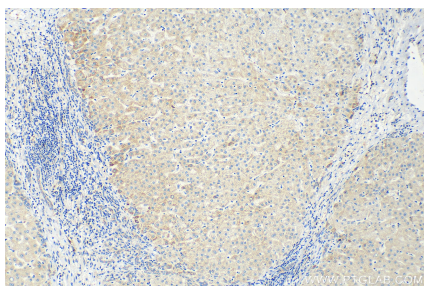
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

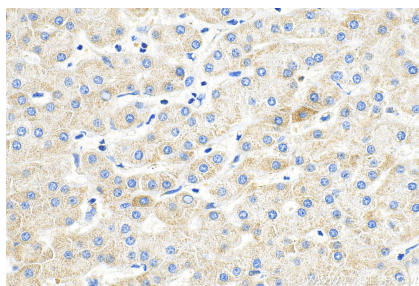
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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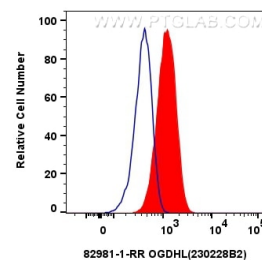
Selected Validation Data



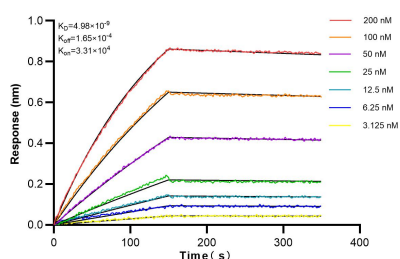
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 82981-1-RR (OGDHL antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 82981-1-RR (OGDHL antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 Caco-2 cells were intracellularly stained with 0.25 μ g OGDHL Recombinant antibody (82981-1-RR, Clone:230228B2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bioluminescence resonance transfer (BLI) kinetic assays of 82981-1-RR against Human OGDHL were performed. The affinity constant is 4.98 nM.