

For Research Use Only

DHRS3 Recombinant antibody

Catalog Number:83581-3-RR



Basic Information

Catalog Number: 83581-3-RR	GenBank Accession Number: BC002730	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 9249	CloneNo.: 240545D8
Source: Rabbit	UNIPROT ID: O75911	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: dehydrogenase/reductase (SDR family) member 3	
Immunogen Catalog Number: AG7589	Calculated MW: 34 kDa	
	Observed MW: 30-34 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : HEK-293 cells, HepG2 cells, mouse liver tissue
Species Specificity: human, mouse, rat	IF/ICC : HepG2 cells,

Background Information

DHRS3 (Short-chain dehydrogenase/reductase 3) is also named as retSDR1, DD83.1 and belongs to the short-chain dehydrogenases/reductases (SDR) family. It catalyzes the reduction of all-trans-retinal to all-trans-retinol in the presence of NADPH. It is detected high levels of expression in fetal kidney, liver, and lung and in adult heart, placenta, lung, liver, kidney, pancreas, thyroid, testis, stomach, trachea, spinal cord and lower levels in skeletal muscle, intestine, and lymph node. retSDR1 is barely detectable in adrenals, brain, thymus, and hematopoietic tissues (PMID:11861404). retSDR1 may play a more general role in retinol metabolism since its expression was observed in many fetal and adult tissues (PMID:20543567).

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

For technical support and original validation data for this product please contact:

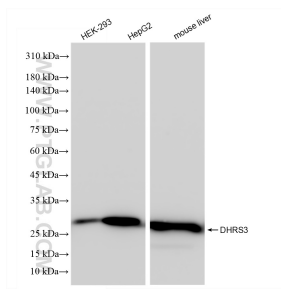
T: 4006900926

E: Proteintech-CN@ptglab.com

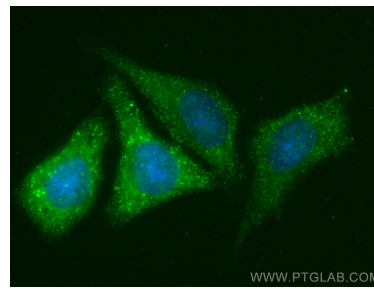
W: ptgcn.com

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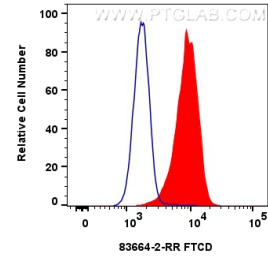
Selected Validation Data



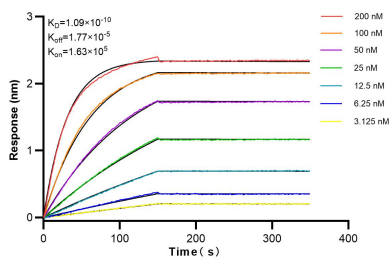
Various lysates were subjected to SDS PAGE followed by western blot with 83581-3-RR (DHR33 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using DHR33 antibody (83581-3-RR, Clone: 240545D8) at dilution of 1:100 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



1×10^6 HepG2 cells were intracellularly stained with 0.25 μ g DHR33 Recombinant antibody (83581-3-RR, Clone:240545D8) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 μ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 83548-3-RR against Human GHITM were performed. The affinity constant is 2.41 nM. Bi-layer interferometry (BLI) kinetic assays of 83581-3-RR against Human DHR33 were performed. The affinity constant is 0.109 nM.