

For Research Use Only

DHRS3 Recombinant antibody

Catalog Number: 83581-3-RR



Basic Information

Catalog Number:

83581-3-RR

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7589

GenBank Accession Number:

BC002730

GeneID (NCBI):

9249

UNIPROT ID:

O75911

Full Name:

dehydrogenase/reductase (SDR family) member 3

Calculated MW:

34 kDa

Observed MW:

30-34 kDa

Purification Method:

Protein A purification

CloneNo.:

240545D8

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, HepG2 cells, mouse liver tissue

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

*** 20ul sizes contain 0.1% BSA

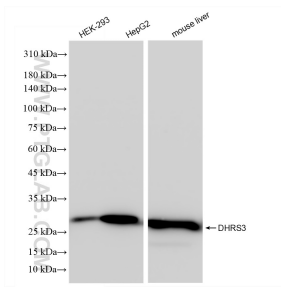
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

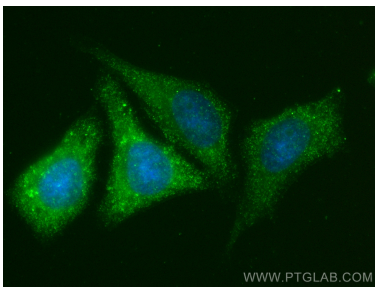
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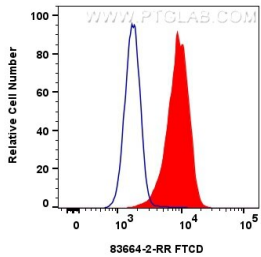
Selected Validation Data



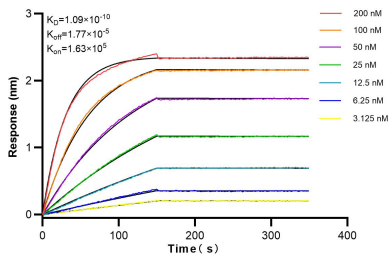
Various lysates were subjected to SDS PAGE followed by western blot with 83581-3-RR (DHR53 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using DHR53 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).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug DHR53 Recombinant antibody (83581-3-RR, Clone:240545D8) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83548-3-RR against Human GHITM were performed. The affinity constant is 2.41 nM. Biolayer interferometry (BLI) kinetic assays of 83581-3-RR against Human DHR53 were performed. The affinity constant is 0.109 nM.