

For Research Use Only

# HSD17B4 Recombinant monoclonal antibody

Catalog Number: 86334-2-RR



## Basic Information

<b>Catalog Number:</b> 86334-2-RR	<b>GenBank Accession Number:</b> BC003098	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3295	<b>CloneNo.:</b> 251058E1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P51659	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> hydroxysteroid (17-beta) dehydrogenase 4	
<b>Immunogen Catalog Number:</b> AG7165	<b>Calculated MW:</b> 80 kDa	
	<b>Observed MW:</b> 75 kDa, 45 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> K-562 cells, HeLa cells, HepG2 cells, mouse liver tissue
	<b>IF/ICC :</b> HeLa cells,

## Background Information

HSD17B4 (17-beta-hydroxysteroid dehydrogenase 4) is also named as Peroxisomal multifunctional enzyme type 2, D-bifunctional protein or multifunctional protein 2. It codes for a 80 kDa enzyme containing three distinct functional domains and is localized in peroxisomes. It is a bifunctional enzyme acting on the peroxisomal beta-oxidation pathway for fatty acids and catalyzing the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. After peroxisomal import, the full-length protein is proteolytically cleaved to yield a 35-kDa dehydrogenase subunit and a 45-kDa hydratase subunit containing the hydratase and SCP domains (PMID: 28868548, 24602372).

## Storage

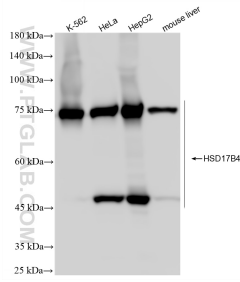
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

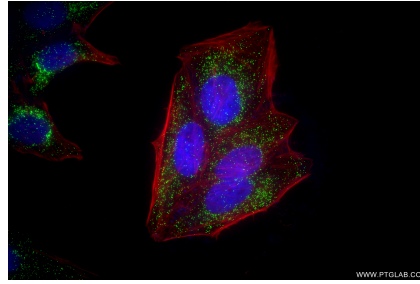
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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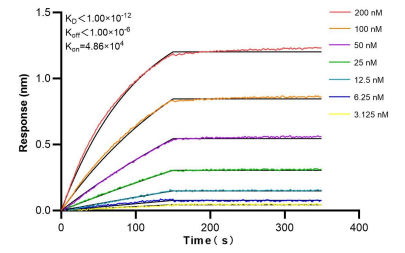
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86334-2-RR (HSD17B4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HSD17B4 antibody (86334-2-RR, Clone: 251058E1) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bi-layer interferometry (BLI) kinetic assays of 86334-2-RR against Human HSD17B4 were performed. The affinity constant is below 1 pM.