

For Research Use Only

HSD17B4 Polyclonal antibody

Catalog Number: 15116-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

15116-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7165

GenBank Accession Number:

BC003098

GeneID (NCBI):

3295

UNIPROT ID:

P51659

Full Name:

hydroxysteroid (17-beta) dehydrogenase 4

Calculated MW:

80 kDa

Observed MW:

80 kDa, 45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF 1:10-1:100

Applications

Tested Applications:

WB, IP, IF, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, sheep, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse liver tissue, mouse brain tissue, mouse heart tissue, HepG2 cells, rat liver tissue

IP: mouse brain tissue,

IHC: human prostate cancer tissue, mouse liver tissue, mouse heart tissue

IF: 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Pablo Ranea-Robles	34651140	Kidney360	WB
Celien Lismont	31129117	Biochim Biophys Acta Biomembr	WB
Petruta L Morvay	28370438	Cell Biochem Funct	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

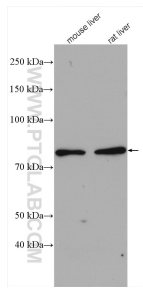
For technical support and original validation data for this product please contact:

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

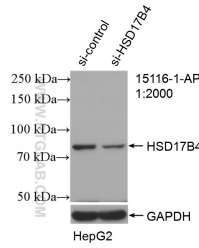
E: proteintech@ptglab.com
W: ptglab.com

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

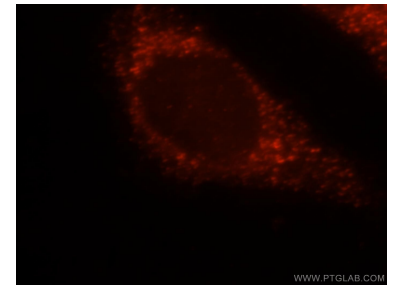
Selected Validation Data



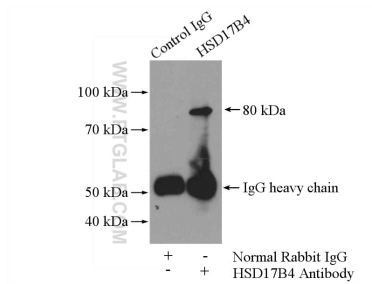
Various lysates were subjected to SDS PAGE followed by western blot with 15116-1-AP (HSD17B4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



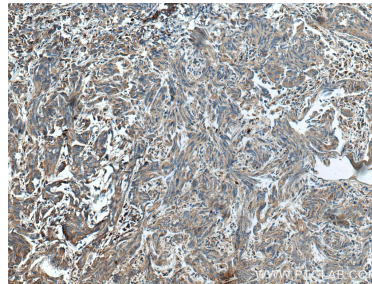
WB result of HSD17B4 antibody (15116-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSD17B4 transfected HepG2 cells.



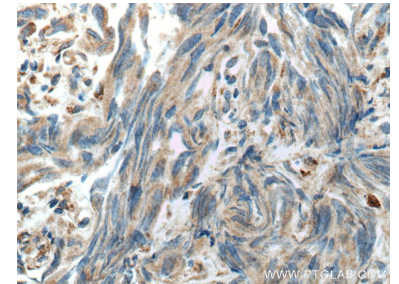
Immunofluorescent analysis of Hela cells, using HSD17B4 antibody 15116-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-HSD17B4 (IP:15116-1-AP, 4ug; Detection:15116-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15116-1-AP (HSD17B4 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 prostate cancer tissue slide using 15116-1-AP (HSD17B4 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).