

For Research Use Only

# ERAB Polyclonal antibody

Catalog Number: 10648-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

10648-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1020

### GenBank Accession Number:

BC008708

### GeneID (NCBI):

3028

### UNIPROT ID:

Q99714

### Full Name:

hydroxysteroid (17-beta) dehydrogenase 10

### Calculated MW:

26 kDa

### Observed MW:

27 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:3000

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

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : HeLa cells, human brain tissue, HEK-293 cells, A2780 cells, mouse liver tissue

IP : HeLa cells,

IHC : human breast cancer tissue, mouse brain tissue

IF/ICC : MCF-7 cells,

## Background Information

HSD17B10 (3-hydroxyacyl-CoA dehydrogenase type-2) is a multifunctional mitochondrial enzyme that acts on a wide spectrum of substrates, including neuroactive steroids, alcohols, leucine, and fatty acids, with a preference for short-chain methyl-branched acyl-CoAs (PMID:15860413). It has 2 isoforms produced by alternative splicing. Defects in HSD17B10 are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD deficiency) and mental retardation syndromic X-linked type 10 (MRXS10).

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Liang	35567411	Hum Mol Genet	WB
Takuya Karasawa	33456007	J Oleo Sci	WB
Oliver Rackham	27498866	Cell Rep	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

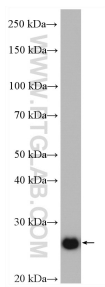
For technical support and original validation data for this product please contact:

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

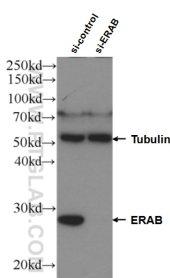
E: proteintech@ptglab.com  
W: ptglab.com

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

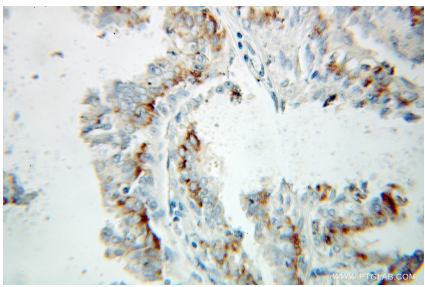
Selected Validation Data



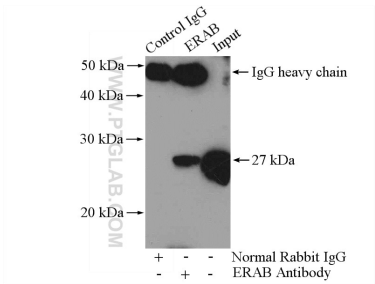
HeLa cells were subjected to SDS PAGE followed by western blot with 10648-1-AP (ERAB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



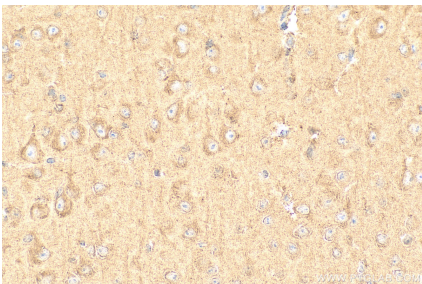
WB result of ERAB antibody (10648-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERAB transfected HEK-293 cells.



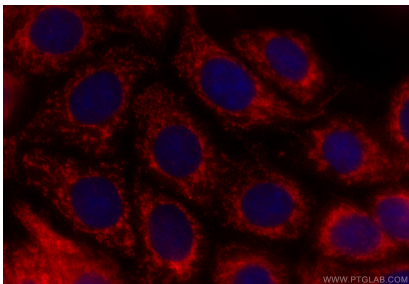
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10648-1-AP (ERAB antibody) at dilution of 1:100 (under 10x lens).



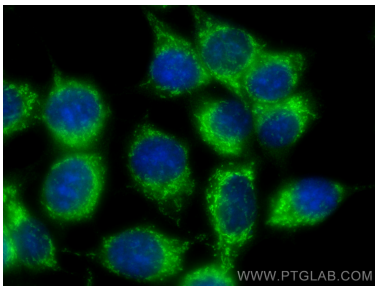
IP result of anti-ERAB (IP:10648-1-AP, 4ug; Detection:10648-1-AP 1:500) with HeLa cells lysate 1200ug.



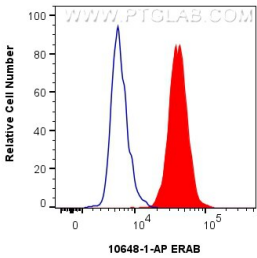
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10648-1-AP (ERAB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ERAB antibody (10648-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ERAB antibody (10648-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug ERAB Polyclonal antibody (10648-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).