

For Research Use Only

# ERAB Polyclonal antibody

Catalog Number: 10648-1-AP

Featured Product

6 Publications



## Basic Information

**Catalog Number:**

10648-1-AP

**Size:**

600 µg/ml

**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 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:20-1:200

## Applications

**Tested Applications:**

WB, IP, IHC, 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,

## 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

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

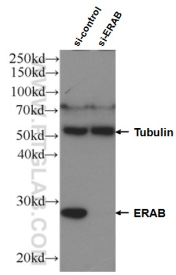
T: 4006900926

E: Proteintech-CN@ptglab.com

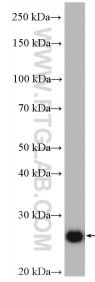
W: ptgcn.com

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

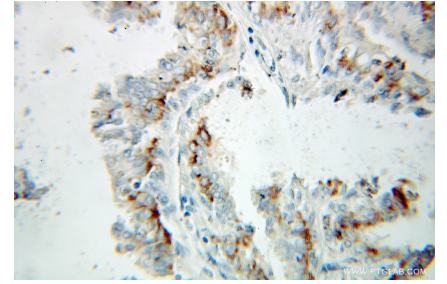
## Selected Validation Data



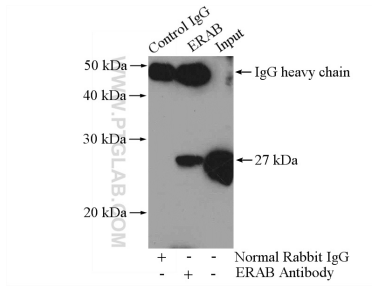
WB result of ERAB antibody (10648-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERAB transfected HEK-293 cells.



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.



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.