

For Research Use Only

# BHLHE40 Polyclonal antibody

Catalog Number: 17895-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

17895-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop and 347 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12236

### GenBank Accession Number:

BC082238

### GeneID (NCBI):

8553

### UNIPROT ID:

O14503

### Full Name:

basic helix-loop-helix family, member e40

### Calculated MW:

412 aa, 46 kDa

### Observed MW:

46-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP

### 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: C2C12 cells, HeLa cells, MDA-MB-231 cells

IP: HeLa cells,

IHC: human endometrial cancer tissue, human pancreas cancer tissue, mouse stomach tissue

## Background Information

BHLHE40 (Basic Helix-Loop-Helix Family Member E40), also known as BHLHB2, STRA13, DEC1, or SHARP2, is a member of the basic helix-loop-helix (bHLH) protein family, a large superfamily of transcriptional regulators expressed in many organisms. BHLHE40 is known to regulate a wide variety of essential cellular processes, including cell cycle, cellular proliferation, programmed cell death, cellular development and differentiation, as well as circadian rhythms (PMID: 34551158). It is reported that BHLHE40 is overexpressed in gastric, breast, and brain tumors; and downregulated in colorectal, esophageal, pancreatic and lung cancer (PMID: 32577154).

## Notable Publications

Author	Pubmed ID	Journal	Application
Kai-Wen Ren	36304536	Front Cardiovasc Med	WB, IHC
Shuang Li	36194366	J Physiol Biochem	IP, WB, IF
Dan-Dan Feng	34917665	Front Cardiovasc Med	WB, IF

## 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

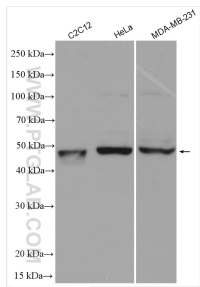
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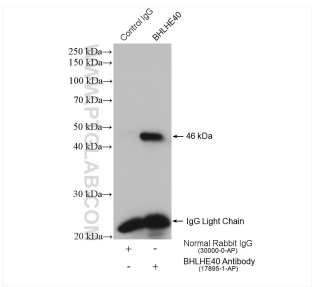
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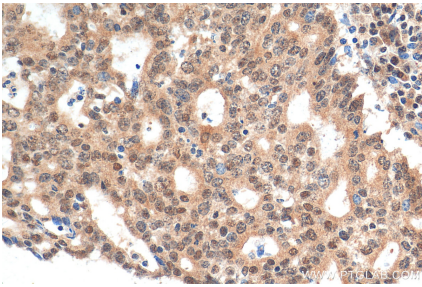
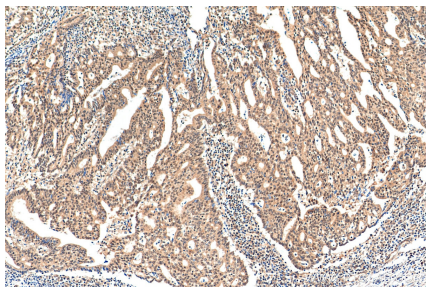
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17895-1-AP (BHLHE40 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-BHLHE40 (IP:17895-1-AP, 4ug; Detection:17895-1-AP 1:1000) with HeLa cells lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 17895-1-AP (BHLHE40 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).