

For Research Use Only

# CACYBP Polyclonal antibody

Catalog Number: 11745-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

11745-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2340

**GenBank Accession Number:**

BC022352

**GeneID (NCBI):**

27101

**UNIPROT ID:**

Q9HB71

**Full Name:**

calcyclin binding protein

**Calculated MW:**

228 aa, 26 kDa

**Observed MW:**

26-30 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

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

IHC 1:1000-1:4000

IF 1:50-1:500

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, 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:** HeLa cells, mouse brain tissue, mouse liver tissue, rat brain tissue, rat liver tissue

**IP:** mouse brain tissue,

**IHC:** human colon cancer tissue,

**IF:** HeLa cells,

## Background Information

CACYBP (Cyclin-binding protein) is also named as S100A6BP, SIP. It is a new target 30 kDa protein that can interact with S100 proteins, including S100A6, S100A1, S100B, and S100P, but not to S100A4, calbindin D, parvalbumin or calmodulin (PMID:22295074). It may be involved in calcium-dependent ubiquitination and subsequent proteasomal degradation of target proteins and probably serves as a molecular bridge in ubiquitin E3 complex. It has 2 isoforms produced by alternative splicing and can exist as a dimer (PMID:17916393).

## Notable Publications

| Author           | Pubmed ID | Journal               | Application |
|------------------|-----------|-----------------------|-------------|
| Ankit Srivastava | 35705526  | Cancer Res            | IF, WB      |
| Yi-Fan Lian      | 31754404  | Theranostics          | WB          |
| Jialiang Wang    | 37968706  | J Exp Clin Cancer Res | WB, IHC, 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

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

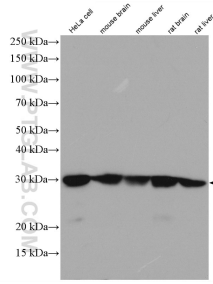
T: 4006900926

E: Proteintech-CN@ptglab.com

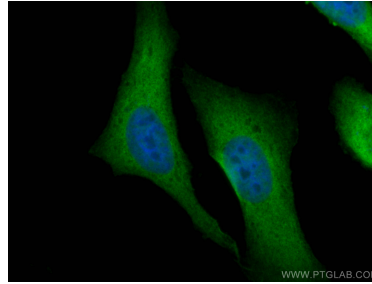
W: ptgcn.com

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

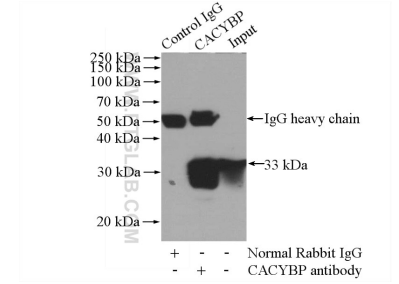
## Selected Validation Data



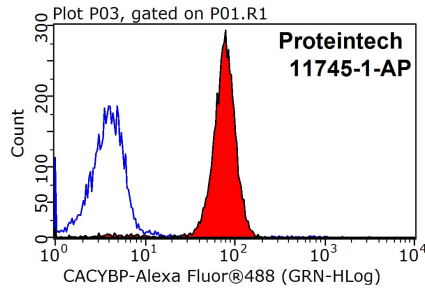
HeLa cells, mouse brain tissue, mouse liver tissue, rat brain tissue, and rat liver tissue were subjected to SDS PAGE followed by western blot with 11745-1-AP (CACYPB antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



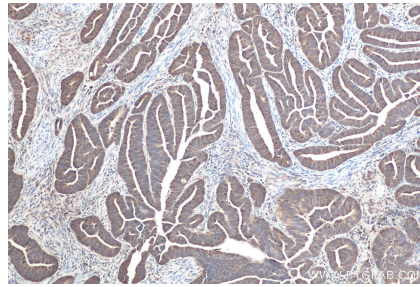
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CACYPB antibody (11745-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-CACYPB (IP:11745-1-AP, 4ug; Detection:11745-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



1X10<sup>6</sup> HeLa cells were stained with 0.2ug CACYPB antibody (11745-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11745-1-AP (CACYPB antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).