

For Research Use Only

CACYBP Polyclonal antibody

Catalog Number: 11745-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

11745-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:1000-1:4000

IF/ICC: 1:50-1:500

FC (Intra): 0.25 ug per 10⁶ cells in a 100 ul suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

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/ICC: HeLa cells,

FC (Intra): HeLa cells,

Background Information

CACYBP (Calcyclin-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
Tao Shen	39794740	BMC Cancer	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

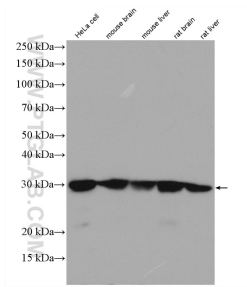
For technical support and original validation data for this product please contact:

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

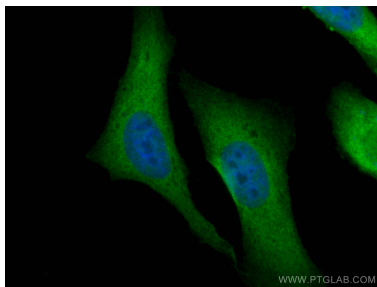
E: proteintech@ptglab.com
W: ptglab.com

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

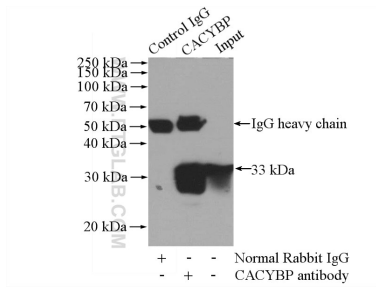
Selected Validation Data



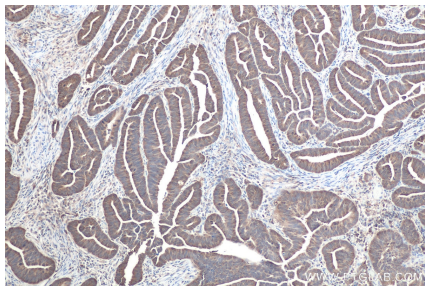
HeLa cells, mouse brain tissue, mouse liver tissue, rat brain tissue, and rat liver tissue were subjected to SDS PAGE followed by western blot with 11745-1-AP (CACYBP antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



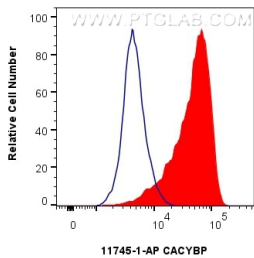
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CACYBP antibody (11745-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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



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



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug CACYBP Polyclonal antibody (11745-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).