

**Anti-CACYBP Antibody**  
Catalog # ABO11068

**Specification**

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**Anti-CACYBP Antibody - Product Information**

Application	WB, ICC, IHC
Primary Accession	<a href="#">Q9HB71</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Calcyclin-binding protein(CACYBP) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-CACYBP Antibody - Additional Information**

**Gene ID** 27101

**Other Names**

Calcyclin-binding protein, CacyBP, hCacyBP, S100A6-binding protein, Siah-interacting protein, CACYBP, S100A6BP, SIP

**Calculated MW**

26210 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br><br>Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Nucleus . Cytoplasm . Cytoplasmic at low calcium concentrations. In neuroblastoma cells, after a retinoic acid (RA) induction and calcium increase, it localizes in both the nucleus and cytoplasm. The nuclear fraction may be phosphorylated.

**Protein Name**

Calcyclin-binding protein(CacyBP/hCacyBP)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human CACYBP (160-175aa NTRWDYLTQVEKECKE), identical to the related rat and mouse sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

**Sequence Similarities**

Contains 1 CS domain.

**Anti-CACYBP Antibody - Protein Information**

**Name** CACYBP

**Synonyms** S100A6BP, SIP

**Function**

May be involved in calcium-dependent ubiquitination and subsequent proteasomal degradation of target proteins. Probably serves as a molecular bridge in ubiquitin E3 complexes. Participates in the ubiquitin-mediated degradation of beta-catenin (CTNNB1).

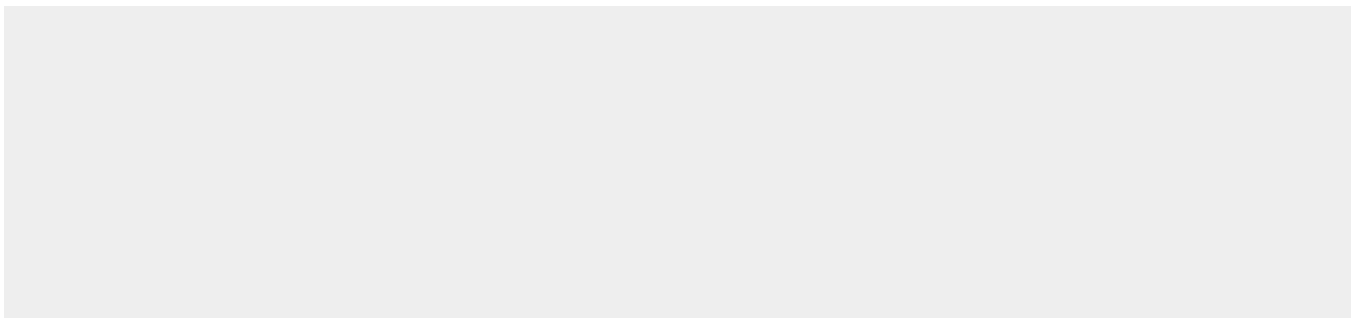
**Cellular Location**

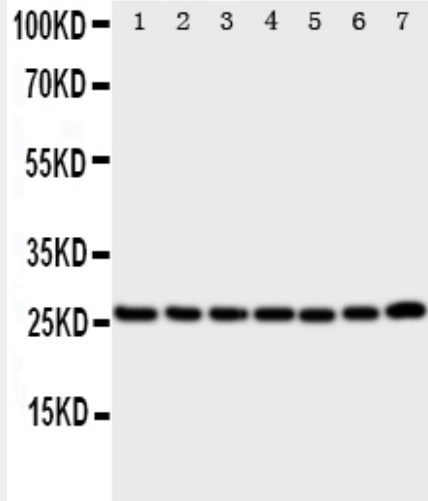
Nucleus. Cytoplasm. Note=Cytoplasmic at low calcium concentrations. In neuroblastoma cells, after a retinoic acid (RA) induction and calcium increase, it localizes in both the nucleus and cytoplasm. The nuclear fraction may be phosphorylated

**Anti-CACYBP Antibody - Protocols**

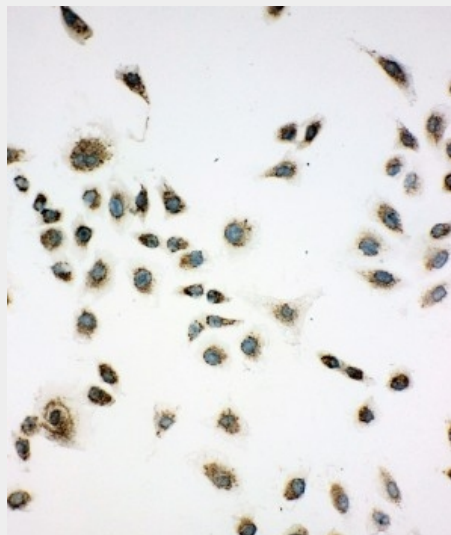
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

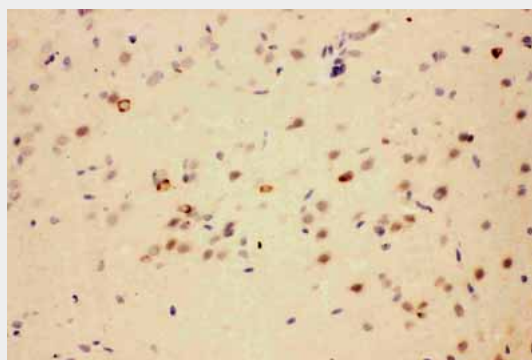
**Anti-CACYBP Antibody - Images**



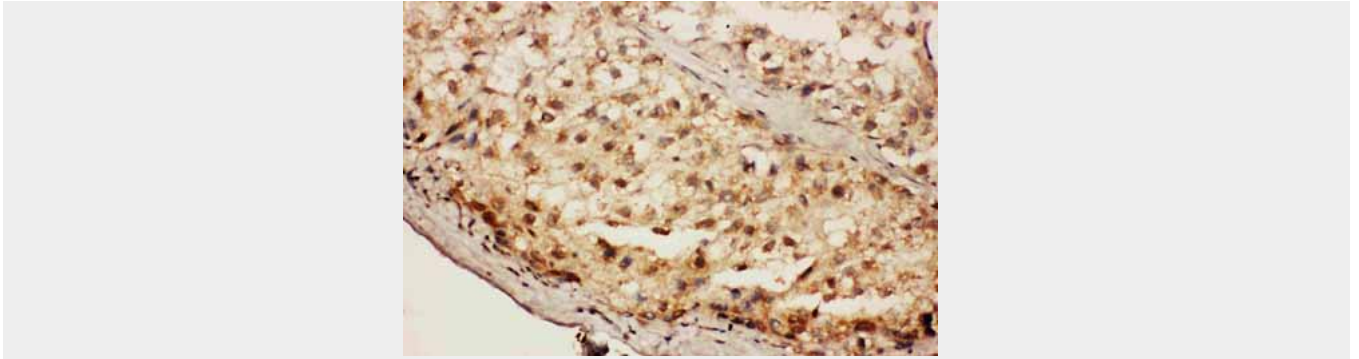
Anti-CACYBP antibody, ABO11068, Western blotting All lanes: Anti CACYBP (ABO11068) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Rat Brain Tissue Lysate at 50ug  
Lane 3: Rat Spleen Tissue Lysate at 50ug  
Lane 4: SMMC Whole Cell Lysate at 40ug  
Lane 5: COLO320 Whole Cell Lysate at 40ug  
Lane 6: SW620 Whole Cell Lysate at 40ug  
Lane 7: 293T Whole Cell Lysate at 40ug  
Predicted bind size: 26KD  
Observed bind size: 26KD



Anti-CACYBP antibody, ABO11068, ICC/ICC: A549 Cell



Anti-CACYBP antibody, ABO11068, IHC(P) IHC(P): Rat Brain Tissue



Anti-CACYBP antibody, ABO11068,IHC(P)IHC(P): Human Liver Cancer Tissue

### **Anti-CACYBP Antibody - Background**

CACYBP (Calcyclin-binding protein), also called SIP, is a protein that in humans is encoded by the CACYBP gene. The full-length SIP cDNA encodes a predicted 228-amino acid protein. Sequence analysis of the shortest cDNA derived by 2-hybrid screening revealed an 8-amino acid difference in the deduced open reading frame followed by a stop codon, resulting in a predicted 80-amino acid protein, SIP-short (SIPS). The CACYBP gene is mapped on 1q25.1. It may be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It probably serves as a molecular bridge in ubiquitin E3 complexes and participates in the ubiquitin-mediated degradation of beta-catenin. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. The C-terminal region of SIP that is homologous to SGT1 was able to complement defects in yeast strains containing SGT1 mutant alleles, demonstrating conservation of SGT1 and SIP protein function.