

**Anti-CACYBP Antibody**  
**Catalog # ABO12780****Specification**

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**Anti-CACYBP Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| 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 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, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

**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

**Contents**

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

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human CACYBP (7-47aa QKDLEEVKVLLEKATRKRVRDALTAEKSKIETIKNKMQQK), different from the related mouse sequence by five amino acids, and from the related rat sequence by six amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, 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.**

**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).

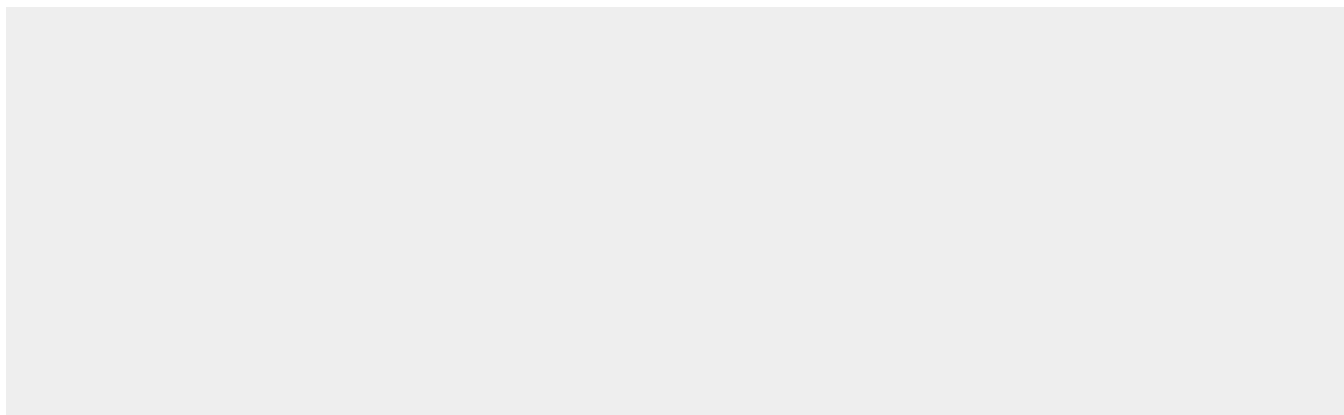
**Cellular Location**

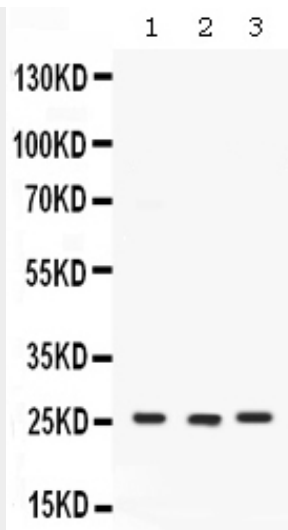
Nucleus. Cytoplasm. Note=Cytoplasmic at low calcium concentrations. In neuroblastoma cells, after a retinoic acid (RA) induction and calcium increase, it localizes in both the nucleus and cytoplasm. The nuclear fraction may be phosphorylated

**Anti-CACYBP Antibody - Protocols**

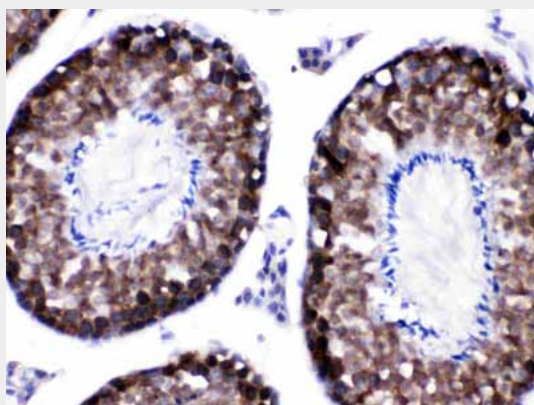
Provided below are standard protocols that you may find useful for product applications.

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

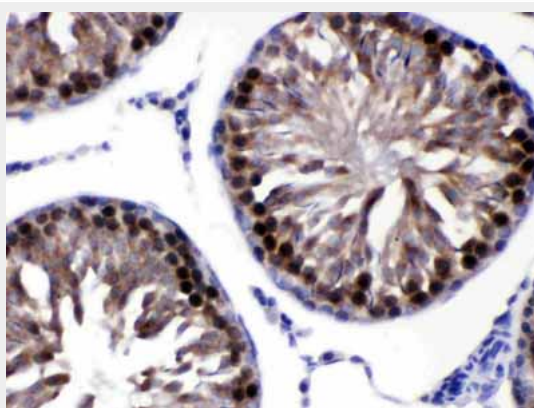
**Anti-CACYBP Antibody - Images**



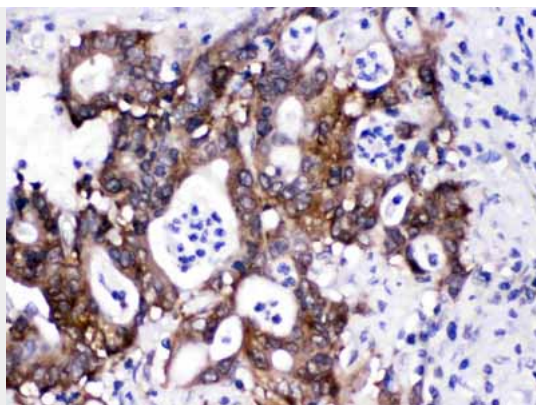
Western blot analysis of CACYBP expression in rat brain extract (lane 1), mouse testis extract (lane 2) and SW620 whole cell lysates (lane 3). CACYBP at 26KD was detected using rabbit anti-CACYBP Antigen Affinity purified polyclonal antibody (Catalog # ABO12780) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



CACYBP was detected in paraffin-embedded sections of mouse testis tissues using rabbit anti-CACYBP Antigen Affinity purified polyclonal antibody (Catalog # ABO12780) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



CACYBP was detected in paraffin-embedded sections of rat testis tissues using rabbit anti-CACYBP Antigen Affinity purified polyclonal antibody (Catalog # ABO12780) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



CACYBP was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- CACYBP Antigen Affinity purified polyclonal antibody (Catalog # ABO12780) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

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

Calcyclin-binding protein is a protein that in humans is encoded by the CACYBP gene. And this gene is mapped to 1q24-q25. The protein encoded by this gene is a calcyclin binding protein. It may be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. In addition, 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.