

Anti-CACYBP Antibody

Catalog # ABO11068

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q9HB71
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.

Additional Information

Gene ID	27101
Other Names	Calcyclin-binding protein, CacyBP, hCacyBP, S100A6-binding protein, Siah-interacting protein, CACYBP, S100A6BP, SIP
Calculated MW	26210
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse, Rat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
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.
Source	Eukaryota
Protein Name	Calcyclin-binding protein(CacyBP/hCacyBP)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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.

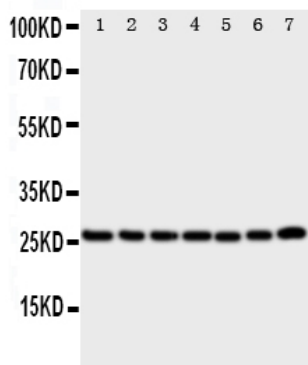
Protein Information

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

Background

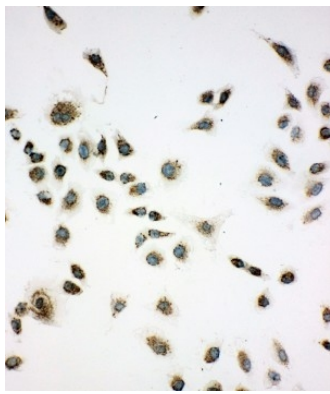
CACYBP(Calcyclin-binding protein), also called SIP, is a protein that in humans is encoded by the CACYBP gene. The full-length SIP cDNA encodes a predicted 228-amino acid protein. Sequence analysis of the shortest cDNA derived by 2-hybrid screening revealed an 8-amino acid difference in the deduced open 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.

Images

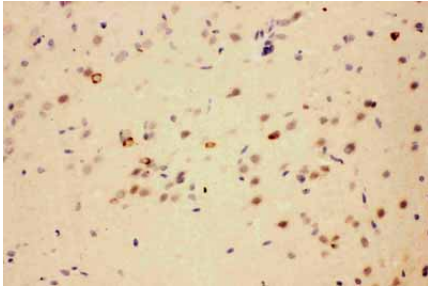


Anti-CACYBP antibody, ABO11068, Western blotting
 All lanes: Anti CACYBP (ABO11068) at 0.5ug/ml
 Lane 1: Rat Liver Tissue Lysate at 50ug
 Lane 2: Rat Brain Tissue Lysate at 50ug
 Lane 3: Rat Spleen Tissue Lysate at 50ug
 Lane 4: SMMC Whole Cell Lysate at 40ug
 Lane 5: COLO320 Whole Cell Lysate at 40ug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

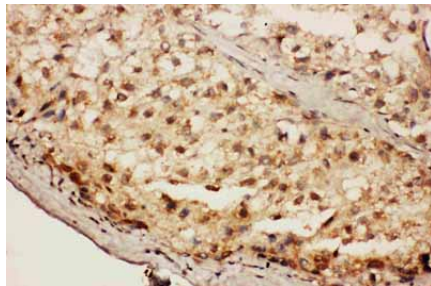
Anti-CACYBP antibody, ABO11068, ICCICC: A549 Cell



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



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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.