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#3354

## CACYBP Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H M R Mk	Endogenous	26	Rabbit	#Q9HB71	27101

### Product Usage Information

#### Application

Western Blotting  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

CACYBP Antibody detects endogenous levels of total CACYBP protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Trp162 of human CACYBP. Antibodies are purified by peptide affinity chromatography.

### Background

Calcyclin-binding protein or Siah-1-interacting protein (CACYBP/SIP) is a component of the ubiquitin E3 ligase complex that also contains Siah1, Skp1, and Ebi (1). CACYBP regulates β-catenin turnover and plays an important role in thymocyte development (2). CACYBP also binds to tubulin and may be involved in cytoskeletal regulation (3,4). It is highly expressed in neurons, and its cellular localization may be regulated by Ca<sup>2+</sup> (5,6). Retinoic acid treatment of the neuroblastoma cell line SH-SY5Y induces translocation of CACYBP to the nucleus and seems to be correlated with phosphorylation of CACYBP on serine residues (7). Recent studies also suggest that CACYBP may possess phosphatase activity (8), and that it can bind and dephosphorylate Erk1/2 (8,9).

### Background References

1. Matsuzawa, S.I. and Reed, J.C. (2001) *Mol Cell* 7, 915-26.
2. Fukushima, T. et al. (2006) *Immunity* 24, 29-39.
3. Schneider, G. et al. (2007) *Biochim Biophys Acta* 1773, 1628-36.
4. Filipek, A. et al. (2008) *J Neural Transm* 115, 1257-64.
5. Jastrzebska, B. et al. (2000) *J Histochem Cytochem* 48, 1195-202.
6. Filipek, A. et al. (2002) *J Biol Chem* 277, 21103-9.
7. Wu, J. et al. (2003) *J Biochem Mol Biol* 36, 354-8.
8. Kilanczyk, E. et al. (2011) *Biochem Biophys Res Commun* 404, 179-83.
9. Kilanczyk, E. et al. (2009) *Biochem Biophys Res Commun* 380, 54-9.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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