

Monoclonal anti-human CACYBP antibody (clone AT3G8)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0316

Immunogen: Recombinant human CACYBP (1-185aa) purified from *E. coli*

NCBI Accession No.: NP_001007215

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human CACYBP mAb, clone AT3G8, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CACYBP protein.

Description: CACYBP (Calcyclin-binding protein) is primarily a nuclear protein that contains one CS domain and one SGS domain. CACYBP is believed to be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It most likely serves as a molecular bridge in ubiquitin E3 complexes. It also participates in the ubiquitin-mediated degradation of b-catenin. CACYBP is thought to be a potential inhibitor of cell growth and invasion in the gastric cancer cell through its effects on b-catenin protein expression and transcriptional activation of TCF/LEF.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, Flow cytometry, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



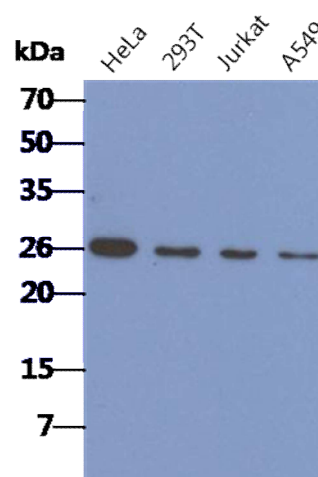
Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

Product information

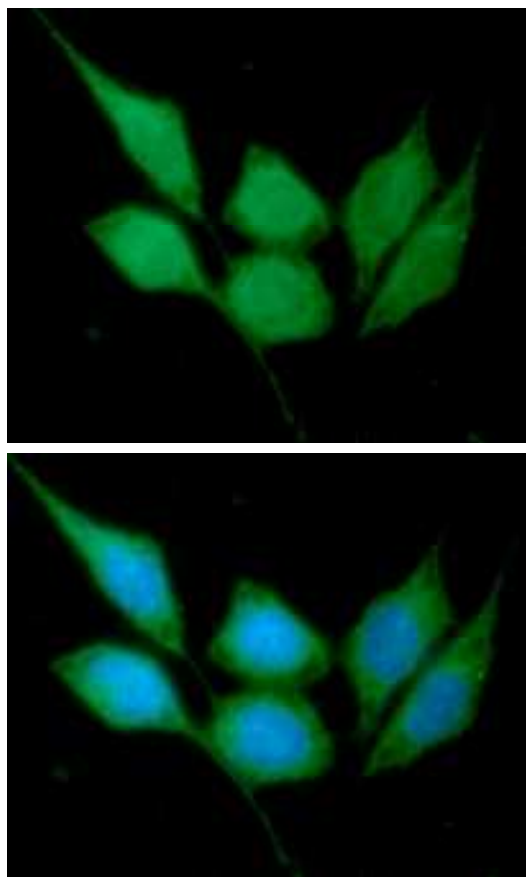
Western blot analysis

The cell lysates of HeLa, 293T, Jurkat and A549(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CACYBP antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



ICC/IF analysis

ICC/IF analysis of CACYBP in PC3 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CACYBP antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

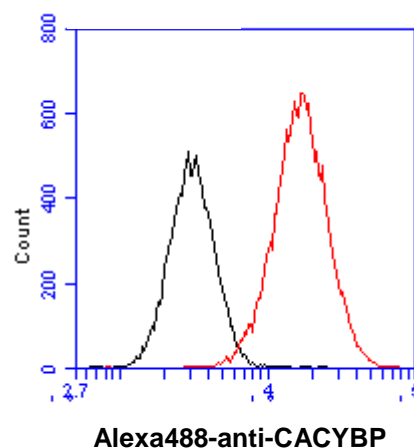


For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

Flow cytometry

Flow cytometry analysis of CACYBP in HeLa cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



General references: Ghosh. D., *et al.* (2013) *Mol Cell Proteomics* **12(7)**: 1865-1880
Rines. A.K., *et al.* (2012) *FASEB* **26(11)**: 4685-4695
Ning. X., *et al.* (2007) *Mol Cancer Res* **5(12)**: 1254-1262

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.