

# Anti-14-3-3 beta Antibody

Catalog # AP96125

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC, FC, IF/IC     |
| <b>Primary Accession</b> | <a href="#">P31946</a> |
| <b>Reactivity</b>        | Human, Mouse, Rat      |
| <b>Host</b>              | Mouse                  |
| <b>Clonality</b>         | Monoclonal             |
| <b>Calculated MW</b>     | 28082                  |

## Additional Information

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|---------------------------|---------------------------------------------------------------------------------------|
| <b>Gene ID</b>            | 7529                                                                                  |
| <b>Other Names</b>        | 14-3-3 protein beta/alpha; Protein 1054; Protein kinase C inhibitor protein 1; KCIP-1 |
| <b>Target/Specificity</b> | Recombinant fusion protein of human 14-3-3 beta expressed in E. Coli                  |
| <b>Dilution</b>           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A              |
| <b>Format</b>             | Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.             |
| <b>Storage</b>            | Store at -20 °C.Stable for 12 months from date of receipt                             |

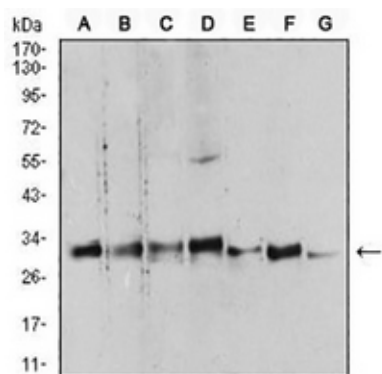
## Protein Information

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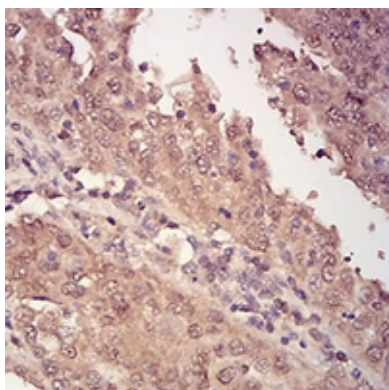
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | YWHAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Function</b>          | Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negative regulator of osteogenesis. Blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2. Negative regulator of signaling cascades that mediate activation of MAP kinases via AKAP13. |
| <b>Cellular Location</b> | Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Images

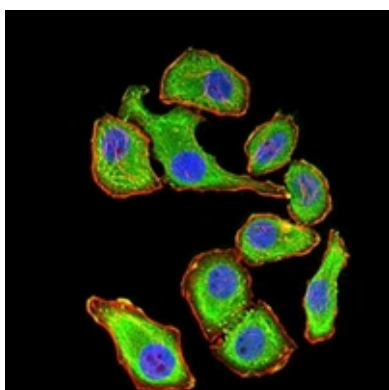
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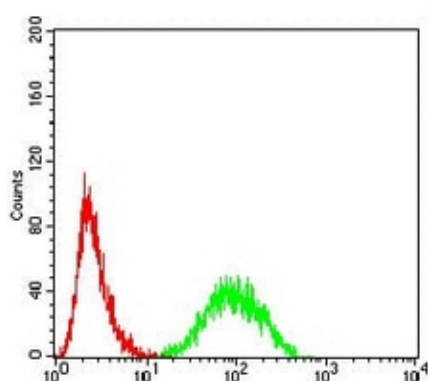
Western blot analysis of 14-3-3 beta expression in HeLa (A), NIH/3T3 (B), C6 (C), A431 (D), K562 (E), PC12 (F), U937 (G) whole cell lysates. (Predicted band size: 28 kD; Observed band size: 30 kD)



Immunohistochemical analysis of 14-3-3 beta staining in human endometrial cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of 14-3-3 beta staining in GC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-14-3-3 beta Antibody (green) and negative control (red).

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