

## Product datasheet for **CF501124**

### **CAPZA1 Mouse Monoclonal Antibody [Clone ID: OTI2G4]**

#### **Product data:**

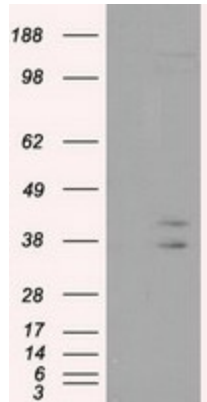
|                                |  |
|--------------------------------|--|
| <b>Product Type:</b>           | Primary Antibodies   |
| <b>Clone Name:</b>             | OTI2G4   |
| <b>Applications:</b>           | FC, IHC, WB  |
| <b>Recommended Dilution:</b>   | WB 1:500, IHC 1:50, Flow 1:100   |
| <b>Reactivity:</b>             | Human, Mouse, Rat  |
| <b>Host:</b>                   | Mouse  |
| <b>Isotype:</b>                | IgG1   |
| <b>Clonality:</b>              | Monoclonal   |
| <b>Immunogen:</b>              | Full length human recombinant protein of human CAPZA1(NP_006126) produced in HEK293T cell.   |
| <b>Formulation:</b>            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| <b>Reconstitution Method:</b>  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| <b>Purification:</b>           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| <b>Conjugation:</b>            | Unconjugated   |
| <b>Storage:</b>                | Store at -20°C as received.  |
| <b>Stability:</b>              | Stable for 12 months from date of receipt.   |
| <b>Predicted Protein Size:</b> | 32.7 kDa   |
| <b>Gene Name:</b>              | capping actin protein of muscle Z-line subunit alpha 1   |
| <b>Database Link:</b>          | <a href="#">NP_006126</a><br><a href="#">Entrez Gene 691149 Rat</a> <a href="#">Entrez Gene 829 Human</a><br><a href="#">P52907</a>  |
| <b>Background:</b>             | CAPZA1 is a member of the F-actin capping protein alpha subunit family. This gene encodes the alpha subunit of the barbed-end actin binding protein. The protein regulates growth of the actin filament by capping the barbed end of growing actin filaments.  |



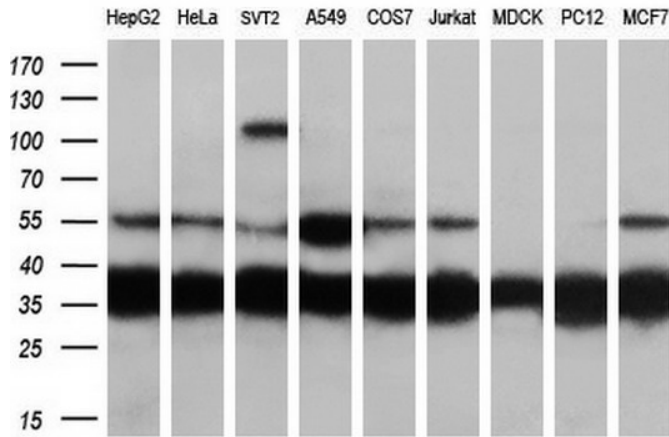
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Synonyms: CAPP1; CAPZ; CAZ1

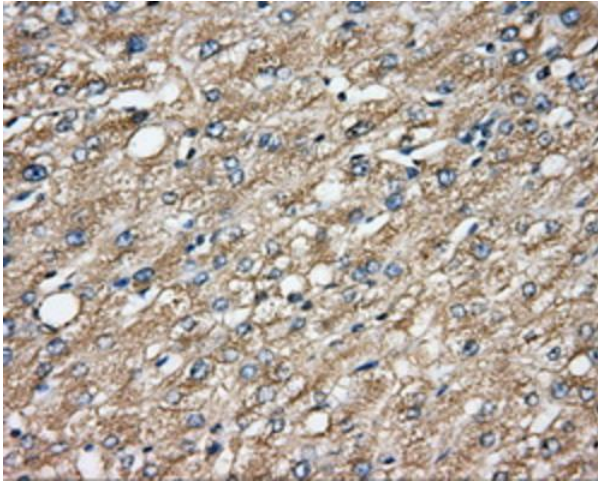
**Product images:**



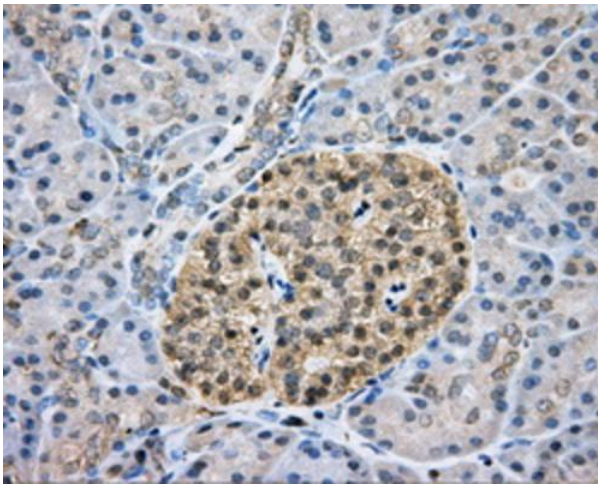
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CAPZA1 (Cat# [RC201642], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CAPZA1(Cat# [TA501124]). Positive lysates [LY401848] (100ug) and [LC401848] (20ug) can be purchased separately from OriGene.



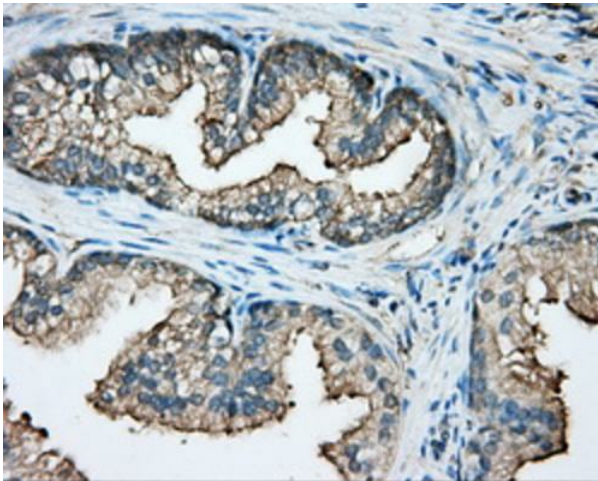
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CAPZA1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



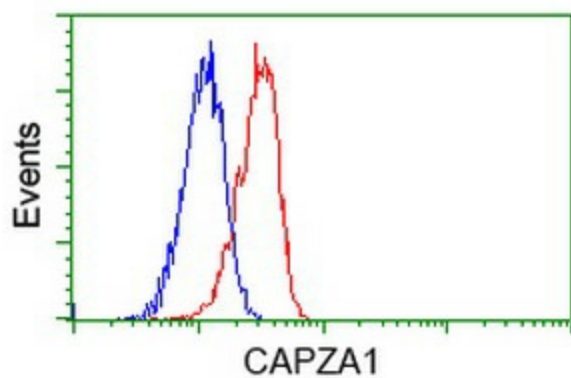
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-CAPZA1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501124], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-CAPZA1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501124], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-CAPZA1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501124], Dilution 1:50)



Flow cytometric Analysis of Jurkat cells, using anti-CAPZA1 antibody ([TA501124]), (Red), compared to a nonspecific negative control antibody, (Blue) (1:100).