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# Product datasheet for TA501124AM

## CAPZA1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2G4]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI2G4 |
| **Applications:** | FC, IHC, WB |
| **Recommended Dilution:** | WB 1:500, IHC 1:50, Flow 1:100 |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Full length human recombinant protein of human CAPZA1(NP_006126) produced in HEK293T cell. |
| **Formulation:** | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| **Concentration:** | 0.5 mg/ml |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Biotin |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 32.7 kDa |
| **Gene Name:** | capping actin protein of muscle Z-line subunit alpha 1 |
| **Database Link:** | NP_006126<br>Entrez Gene 691149 RatEntrez Gene 829 Human<br>P52907 |
| **Background:** | 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. |
| **Synonyms:** | CAPPA1; CAPZ; CAZ1 |

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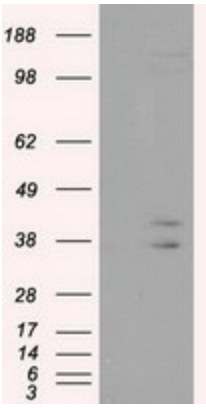
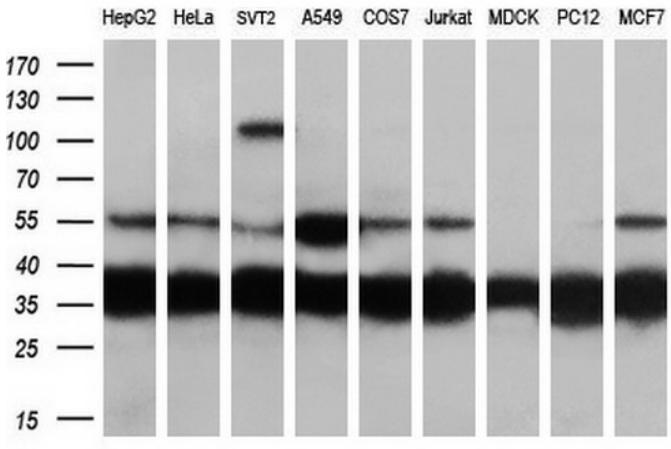
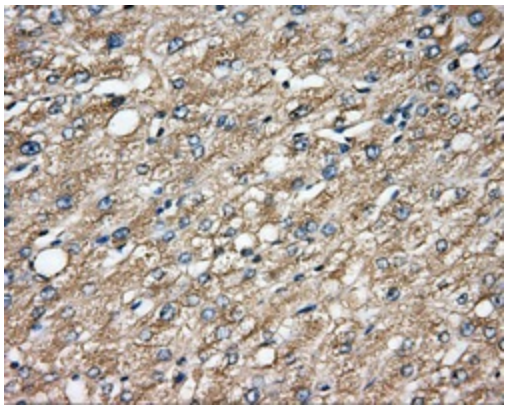
## Product images:



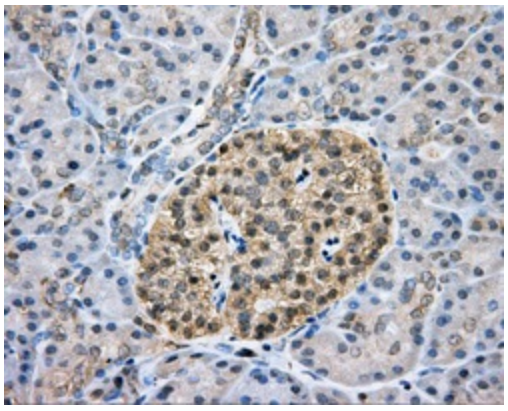

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CAPZA1 (Cat# [RC201642], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CAPZA1(Cat# [TA501124]). Positive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



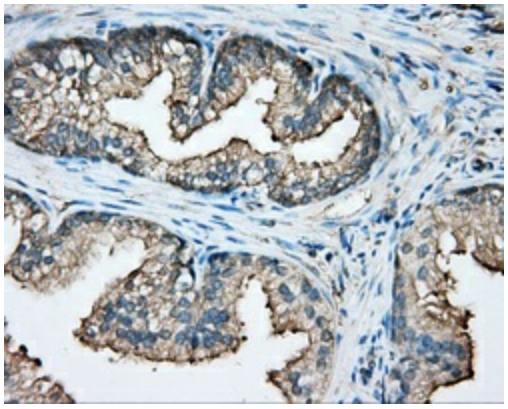

Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CAPZA1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



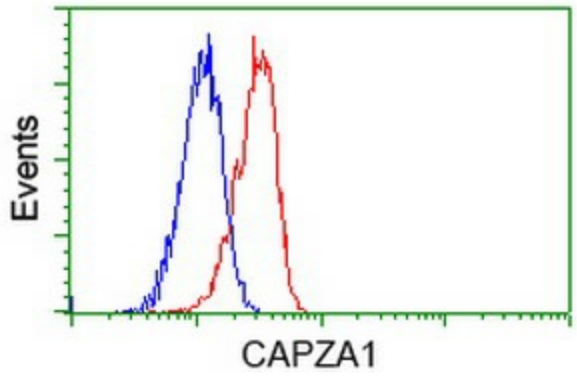
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-CAPZA1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501124], Dilution 1:50)



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).