



Rabbit Anti-CAPZA1 antibody

SL5161R

Product Name:	CAPZA1
Chinese Name:	F肌动蛋白 α 1亚基抗体
Alias:	Cap Z; Cappa 1; Cappa1; Capping protein (actin filament) muscle Z line alpha 1; Capping protein alpha 1; Capping protein muscle Z line alpha 1; CapZ alpha 1; CAPZ; CAPZA 1; CAZ 1; CAZ1; F actin capping protein alpha 1 subunit.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CAPZA1:201-286/286
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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, and has roles in cell motility and actin assembly.

Function:

F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments.

Subunit:

Heterodimer of an alpha and a beta subunit. Interacts with S100A (By similarity). Component of the WASH complex, composed of F-actin-capping protein subunit alpha (CAPZA1, CAPZA2 or CAPZA3), F-actin-capping protein subunit beta (CAPZB), WASH (WASH1, WASH2P, WASH3P, WASH4P, WASH5P or WASH6P), FAM21 (FAM21A, FAM21B or FAM21C), KIAA1033, KIAA0196 and CCDC53. Interacts with S100B.

Subcellular Location:

Cytoplasm, cytoskeleton (By similarity).

Similarity:

Belongs to the F-actin-capping protein alpha subunit family.

SWISS:

P52907

Gene ID:

829

Database links:

[Entrez Gene: 829](#)Human

[Entrez Gene: 12340](#)Mouse

[Entrez Gene: 691149](#)Rat

[Omim: 601580](#)Human

[SwissProt: P52907](#)Human

[SwissProt: P47753](#)Mouse

[SwissProt: B2GUZ5](#)Rat

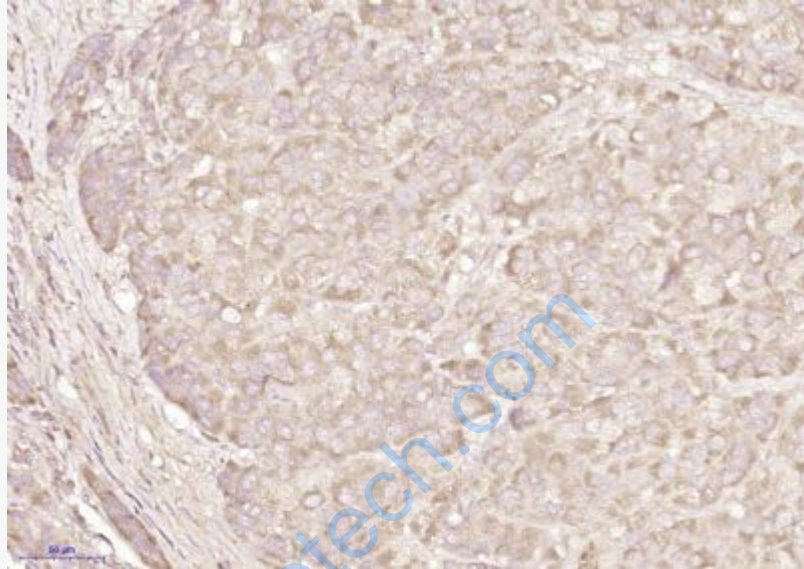
[Unigene: 727604](#)Human

[Unigene: 19142](#)Mouse

[Unigene: 13838](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CAPZA1) Polyclonal Antibody, Unconjugated (SL5161R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.