

CAPZB / CAPZ Beta Antibody (clone 1H1)
Mouse Monoclonal Antibody
Catalog # ALS14268**Specification**

CAPZB / CAPZ Beta Antibody (clone 1H1) - Product Information

Application	WB, IHC
Primary Accession	P47756
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	31kDa KDa

CAPZB / CAPZ Beta Antibody (clone 1H1) - Additional Information**Gene ID** 832**Other Names**

F-actin-capping protein subunit beta, CapZ beta, CAPZB

Target/Specificity

Human CAPZB

Reconstitution & Storage

For long term, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

CAPZB / CAPZ Beta Antibody (clone 1H1) is for research use only and not for use in diagnostic or therapeutic procedures.

CAPZB / CAPZ Beta Antibody (clone 1H1) - Protein Information**Name** CAPZB ([HGNC:1491](#))**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. Plays a role in the regulation of cell morphology and cytoskeletal organization. Forms, with CAPZB, the barbed end of the fast growing ends of actin filaments in the dynactin complex and stabilizes dynactin structure. The dynactin multiprotein complex activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity).

Cellular Location

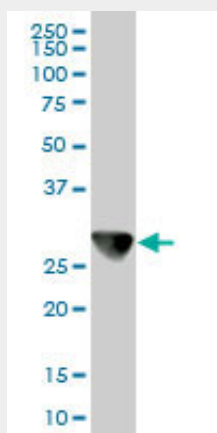
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A9XFX6}. Cytoplasm, myofibril, sarcomere {ECO:0000250|UniProtKB:A9XFX6}

CAPZB / CAPZ Beta Antibody (clone 1H1) - Protocols

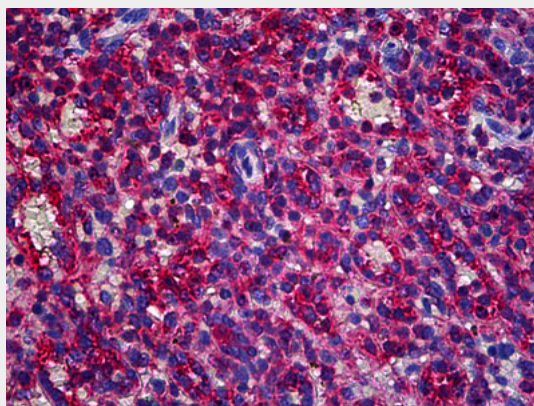
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CAPZB / CAPZ Beta Antibody (clone 1H1) - Images



CAPZB monoclonal antibody, clone 1H1. Western blot of CAPZB expression in HeLa.



Anti-CAPZB antibody IHC of human spleen.

CAPZB / CAPZ Beta Antibody (clone 1H1) - Background

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. Plays a role in the regulation of cell morphology and cytoskeletal organization.

CAPZB / CAPZ Beta Antibody (clone 1H1) - References

Barron-Casella E.A., et al. J. Biol. Chem. 270:21472-21479(1995).

Kalnina N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Gregory S.G., et al. Nature 441:315-321(2006).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Gevaert K., et al. Nat. Biotechnol. 21:566-569(2003).