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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}

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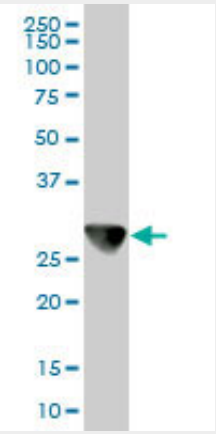
CAPZB / CAPZ Beta Antibody (clone 1H1) - Protocols

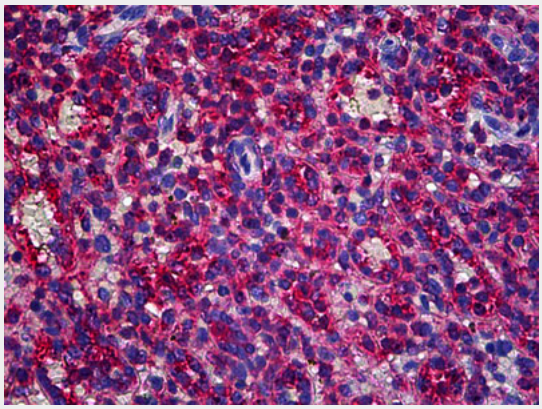
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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).

Kalnine 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).