

#4897 Store at -20C

Ajuba Antibody



Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M Mk	Endogenous	55	Rabbit	#Q96IF1	84962

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Ajuba Antibody detects endogenous levels of total Ajuba protein.

Species predicted to react based on 100% sequence homology:

Rat

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human Ajuba. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Ajuba belongs to the Zyxin/Ajuba family, members of which include LIMD1, LPP, Trip6 and Zyxin. Three LIM domains at the carboxy-terminus characterize this family of proteins. Zyxin/Ajuba family members associate with the actin cytoskeleton, are components of both cell-cell junction adhesive complex and integrin-mediated adhesive complex, and shuttle in and out of the nucleus (1). Ajuba is involved in Rac activation during cell migration and activates Aurora A in order to commit to mitosis (2-3). Ajuba and its family members also have an amino-terminal proline-rich pre-LIM region, and Ajuba augments ERK activation in a Ras-dependent manner (4).

Background References

- Feng, Y. and Longmore, G.D. (2005) *Mol. Cell Biol.* 25, 4010-4022.
- Pratt, S. J. et al. (2005) *J. Cell Biol.* 168, 813-824.
- Hirota, T. et al. (2003) *Cell* 114, 585-598.
- Goyal, R. et al. (1999) *Mol. Cell Biol.* 19, 4379-4389.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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