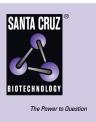
## SANTA CRUZ BIOTECHNOLOGY, INC.

# Ajuba (C-13): sc-46721



#### BACKGROUND

The LIM protein Ajuba (JUB), a member of the Zyxin family, mediates various cellular events. Ajuba is a component of the IL-1 signaling pathway modulating IL-1-induced NF<sub>K</sub>B activation by influencing the assembly and activity of the  $\alpha$ PKC/p62/TRAF6 multiprotein signaling complex. Ajuba also plays a role in cadherin-mediated cell-cell adhesion and influences cell migration by regulating PIP2 synthesis through direct activation of PIPKI $\alpha$  activity. Differentiating mouse embryonic stem cells show elevated Ajuba transcription. In adult mouse tissues, Ajuba is present in skin, brain and genitourinary organs. Immunofluorescence analysis of unsynchronized HeLa cells shows cytoplasmic staining. In cells synchronized at G<sub>2</sub>/M, Ajuba localizes to the centrosome, where it complexes with LATS2 to regulate the organization of the spindle apparatus through recruitment of y Tubulin.

### REFERENCES

- 1. Goyal, R.K., Lin, P., Kanungo, J., Payne, A.S., Muslin, A.J. and Longmore, G.D. 1999. Ajuba, a novel LIM protein, interacts with GRB2, augments mitogen-activated protein kinase activity in fibroblasts and promotes meiotic maturation of Xenopus oocytes in a GRB2- and Ras-dependent manner. Mol. Cell. Biol. 19: 4379-4389.
- 2. Marie, H., Billups, D., Bedford, F.K., Dumoulin, A., Goyal, R.K., Longmore, G.D., Moss, S.J. and Attwell, D. 2002. The amino-terminus of the glial glutamate transporter GLT-1 interacts with the LIM protein Ajuba. Mol. Cell. Neurosci. 19: 152-164.
- 3. Petit, M.M., Meulemans, S.M., Alen, P., Ayoubi, T.A., Jansen, E. and Van de Ven, W.J. 2005. The tumor suppressor Scrib interacts with the Zyxinrelated protein LPP, which shuttles between cell adhesion sites and the nucleus. BMC Cell Biol. 6: 1.
- 4. Pratt, S.J., Epple, H., Ward, M., Feng, Y., Braga, V.M. and Longmore, G.D. 2005. The LIM protein Ajuba influences p130Cas localization and Rac 1 activity during cell migration. J. Cell Biol. 168: 813-824.

#### CHROMOSOMAL LOCATION

Genetic locus: JUB (human) mapping to 14q11.2; Jub (mouse) mapping to 14 C2.

#### SOURCE

Ajuba (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ajuba of human origin.

#### PRODUCT

Each vial contains 200 µg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-46721 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### **APPLICATIONS**

Ajuba (C-13) is recommended for detection of Ajuba of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Ajuba siRNA (h): sc-60066, Ajuba siRNA (m): sc-60067, Ajuba shRNA Plasmid (h): sc-60066-SH, Ajuba shRNA Plasmid (m): sc-60067-SH, Ajuba shRNA (h) Lentiviral Particles: sc-60066-V and Ajuba shRNA (m) Lentiviral Particles: sc-60067-V.

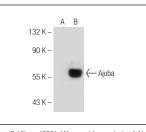
Molecular Weight of Ajuba: 55-60 kDa.

Positive Controls: human Ajuba transfected HEK293T whole cell lysate.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.





Aiuba (C-13): sc-46721. Western blot analysis of Aiuba expression in non-transfected (A) and human Ajuba transfected (B) HEK293T whole cell lysates

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### Try Ajuba (B-3): sc-398008 or Ajuba (F-9): MONOS sc-514001, our highly recommended monoclonal Satisfation alternatives to Ajuba (C-13). Guaranteed

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