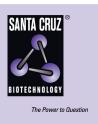
SANTA CRUZ BIOTECHNOLOGY, INC.

BAM32 (UW32): sc-73653



BACKGROUND

B cell adapter molecule (BAM32) is also designated a dual adapter for phosphotyrosine and 3-phosphotyrosine, and 3-phosphoinositide (DAPP1) or B lymphocyte adapter protein. BAM32 is a B cell-associated adapter that is crucial for B cell antigen receptor signaling regulation. BAM32 interacts with PtdIns and PLC $\gamma 2$ and, upon B cell activation, the protein is phosphorylated on tyrosine residues. It is a mainly cytoplasmic protein that can translocate to the cell membrane after cell stimulation. BAM32, which contains one PH domain and one SH2 domain, is primarily expressed in placenta and lung tissues, but can also be detected in heart, liver, pancreas and brain.

REFERENCES

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- Niiro, H. and Clark, E.A. 2003. Branches of the B cell antigen receptor pathway are directed by protein conduits BAM32 and carma1. Immunity 19: 637-640.
- Fournier, E., Isakoff, S.J., Ko, K., Cardinale, C.J., Inghirami, G.G., Li, Z., Curotto de Lafaille, M.A. and Skolnik, E.Y. 2003. The B cell SH2/PH domaincontaining adaptor BAM32/DAPP1 is required for T cell-independent II antigen responses. Curr. Biol. 13: 1858-1866.
- Niiro, H., Allam, A., Stoddart, A., Brodsky, F.M., Marshall, A.J. and Clark, E.A. 2004. The B lymphocyte adaptor molecule of 32 kilodaltons (BAM32) regulates B cell antigen receptor internalization. J. Immunol. 173: 5601-5609.
- Allam, A., Niiro, H., Clark, E.A. and Marshall, A.J. 2004. The adaptor protein BAM32 regulates Rac 1 activation and Actin remodeling through a phosphorylation-dependent mechanism. J. Biol. Chem. 279: 39775-39782.
- 6. Allam, A. and Marshall, A.J. 2005. Role of the adaptor proteins BAM32, TAPP1 and TAPP2 in lymphocyte activation. Immunol. Lett. 97: 7-17.

CHROMOSOMAL LOCATION

Genetic locus: DAPP1 (human) mapping to 4q23.

SOURCE

BAM32 (UW32) is a mouse monoclonal antibody raised against GST-fusion protein expressing BAM32 of human origin.

PRODUCT

Each vial contains 200 μg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

BAM32 (UW32) is recommended for detection of BAM32 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for BAM32 siRNA (h): sc-60241, BAM32 shRNA Plasmid (h): sc-60241-SH and BAM32 shRNA (h) Lentiviral Particles: sc-60241-V.

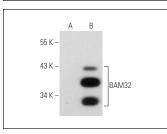
Molecular Weight of BAM32: 32 kDa.

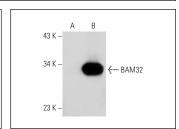
Positive Controls: U-698-M whole cell lysate: sc-364799, BAM32 (h2): 293T Lysate: sc-174819 or JEG-3 whole cell lysate: sc-364255.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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).

DATA





BAM32 (UW32): sc-73653. Western blot analysis of BAM32 expression in non-transfected: sc-117752 (**A**) and human BAM32 transfected: sc-174819 (**B**) 293T whole cell lysates. BAM32 (UW32): sc-73653. Western blot analysis of BAM32 expression in non-transfected: sc-117752 (A) and human BAM32 transfected: sc-113815 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.