

BAM32 (FL-280): sc-67166

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. BAM32 is a B cell-associated adapter that is crucial for B cell antigen receptor signaling regulation. BAM32 interacts with PtdIns and PLC γ 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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2. 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 domain-containing adaptor BAM32/DAPP1 is required for T cell-independent II antigen responses. *Curr. Biol.* 13: 1858-1866.
3. 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.
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5. Allam, A., Niiro, H., Clark, E.A. and Marshall, A.J. 2004. The adaptor protein BAM32 regulates Rac1 activation and Actin remodeling through a phosphorylation-dependent mechanism. *J. Biol. Chem.* 279: 39775-39782.
6. Allam, A., 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; Dapp1 (mouse) mapping to 3 G3.

SOURCE

BAM32 (FL-280) is a rabbit polyclonal antibody raised against amino acids 1-280 representing full length BAM32 of human origin.

PRODUCT

Each vial contains 200 μ g IgG 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.

RESEARCH USE

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

APPLICATIONS

BAM32 (FL-280) is recommended for detection of BAM32 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA.

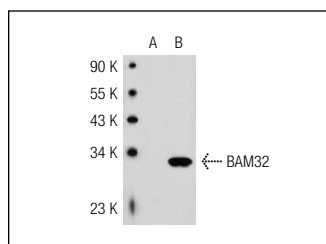
BAM32 (FL-280) is also recommended for detection of BAM32 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for BAM32 siRNA (h): sc-60241, BAM32 siRNA (m): sc-60242, BAM32 shRNA Plasmid (h): sc-60241-SH, BAM32 shRNA Plasmid (m): sc-60242-SH, BAM32 shRNA (h) Lentiviral Particles: sc-60241-V and BAM32 shRNA (m) Lentiviral Particles: sc-60242-V.

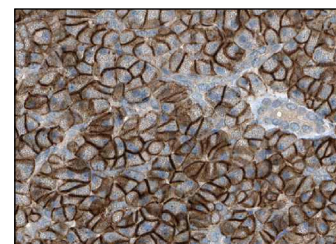
Molecular Weight of BAM32: 32 kDa.

Positive Controls: U-698-M whole cell lysate: sc-364799, BAM32 (h): 293T Lysate: sc-113815 or JEG-3 whole cell lysate: sc-364255.

DATA



BAM32 (FL-280): sc-67166. Western blot analysis of BAM32 expression in non-transfected: sc-117752 (A) and human BAM32 transfected: sc-113815 (B) 293T whole cell lysates.



BAM32 (FL-280): sc-67166. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing membrane staining of exocrine glandular cells and islets of Langerhans. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

PROTOCOLS

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

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Try **BAM32 (E-10): sc-133166** or **BAM32 (UW32): sc-73653**, our highly recommended monoclonal alternatives to BAM32 (FL-280).