BACKGROUND
BAP29 (BCR-associated protein 29), also known as BCAP29 (B cell receptor-associated protein 29), is a multi-pass membrane protein localizing to the endoplasmic reticulum (ER) and belonging to the BCAP29/BCAP31 family of proteins. It is ubiquitously expressed with predominant expression in brain and testes. BAP29 contains a hydrophobic N-terminus, three transmembrane domains, a coiled-coil region and a C-terminal double-lysinemotif that is implicated in vesicular transport. BAP29 exists as a homodimer or as a heterodimer with BAP31 and plays a role in membrane IgD molecule retention in the ER. In addition, the BAP29/BAP31 complex functions as a cargo receptor for MHC class I molecules and is important for recruiting the class I molecules to exit sites of the ER. The BAP29/BAP31 complex is also essential for proper trafficking from the ER to the Golgi.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: BCAP29 (human) mapping to 7q22.3; Bcap29 (mouse) mapping to 12 A3.

SOURCE
BAP29 (W352) is a mouse monoclonal antibody raised against recombinant BAP29 of human origin.

PRODUCT
Each vial contains 100 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
BAP29 (W352) is recommended for detection of BAP29 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), immunohistochemistry (including paraffin-embedded sections) (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 BAP29 siRNA (h): sc-72609, BAP29 siRNA (m): sc-72610, BAP29 shRNA Plasmid (h): sc-72609-SH, BAP29 shRNA Plasmid (m): sc-72610-SH, BAP29 shRNA (h) Lentiviral Particles: sc-72609-V and BAP29 shRNA (m) Lentiviral Particles: sc-72610-V.

Molecular Weight of BAP29: 29 kDa.

Positive Controls: PC-12 cell lysate: sc-2250.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

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.

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