

# BAP29 (Y-20): sc-82527

## 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-lysine motif 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

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## STORAGE

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

## CHROMOSOMAL LOCATION

Genetic locus: BCAP29 (human) mapping to 7q22.3.

## SOURCE

BAP29 (Y-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BAP29 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-82527 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BAP29 (Y-20) is recommended for detection of BAP29 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

BAP29 (Y-20) is also recommended for detection of BAP29 in additional species, including bovine.

Suitable for use as control antibody for BAP29 siRNA (h): sc-72609, BAP29 shRNA Plasmid (h): sc-72609-SH and BAP29 shRNA (h) Lentiviral Particles: sc-72609-V.

Molecular Weight of BAP29: 29 kDa.

## 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) 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™ Mounting Medium: sc-24941.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.