

# Bcl10 (N-20): sc-9558

## BACKGROUND

Bcl10, also designated CIPER, c-CARMEN and mE10, was first identified as a gene truncated or mutated in MALT B cell lymphomas and other tumor types. Bcl10 is homologous to the equine herpes virus-2 E10 gene, and like E10 it contains an amino-terminal caspase recruitment domain (CARD). Expression of Bcl10 was shown to induce NF $\kappa$ B activation in a NIK-dependent pathway, and the CARD domain was shown to be essential for this activation. In a separate study, Bcl10 by itself did not induce JNK or NF $\kappa$ B activation. Overexpression of Bcl10 was shown to induce apoptosis, in a manner that was dependent on CARD-mediated oligomerization. Bcl10 was also shown to play a role in processing of caspase-9 to its active dimer. Other studies have shown that Bcl10 is not mutated in many human tumors and lymphomas.

## CHROMOSOMAL LOCATION

Genetic locus: BCL10 (human) mapping to 1p22.3; Bcl10 (mouse) mapping to 3 H2.

## SOURCE

Bcl10 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Bcl10 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9558 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Bcl10 (N-20) is recommended for detection of Bcl10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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 (starting dilution 1:30, dilution range 1:30-1:3000).

Bcl10 (N-20) is also recommended for detection of Bcl10 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Bcl10 siRNA (h): sc-29793, Bcl10 siRNA (m): sc-29794, Bcl10 shRNA Plasmid (h): sc-29793-SH, Bcl10 shRNA Plasmid (m): sc-29794-SH, Bcl10 shRNA (h) Lentiviral Particles: sc-29793-V and Bcl10 shRNA (m) Lentiviral Particles: sc-29794-V.

Molecular Weight of Bcl10: 33 kDa.

Positive Controls: Bcl10 (h): 293T Lysate: sc-116437, HuT 78 whole cell lysate: sc-2208 or Ramos cell lysate: sc-2216.

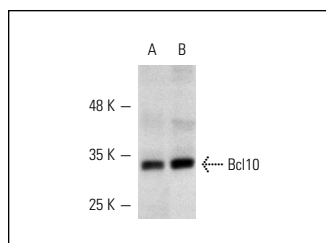
## STORAGE

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

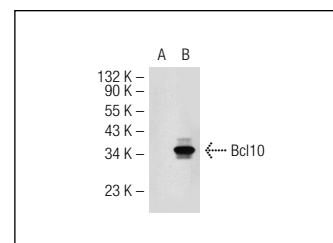
## RESEARCH USE

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

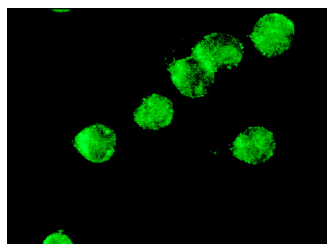
## DATA



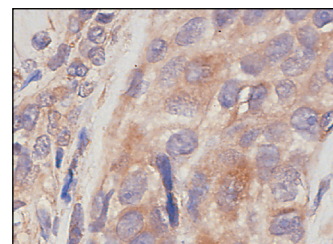
Bcl10 (N-20): sc-9558. Western blot analysis of Bcl10 expression in Ramos (A) and HuT 78 (B) whole cell lysates.



Bcl10 (N-20): sc-9558. Western blot analysis of Bcl10 expression in non-transfected: sc-117752 (A) and human Bcl10 transfected: sc-116437 (B) 293T whole cell lysates.



Bcl10 (N-20): sc-9558. Immunofluorescence staining of methanol-fixed Ramos cells showing cytoplasmic and nuclear staining.



Bcl10 (N-20): sc-9558. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human lymphoma showing cytoplasmic staining.

## SELECT PRODUCT CITATIONS

1. Rueda, D., et al. 2007. Bcl10 Controls TCR- and Fc $\gamma$ R-induced actin polymerization. J. Immunol. 178: 4373-4384.

## PROTOCOLS

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