

BAZ1A (N-20): sc-10627

BACKGROUND

Chromatin remodeling complexes are suggested to provide a level of regulatory control and specificity of chromatin remodeling processes. Based upon their associated ATPase, chromatin remodeling complexes are organized into four different families, SWI/SNF, ISWI, CHD and INO80. Several members of the BAZ/WAL family interact independently with hSNF2H, the human homolog of *Drosophila* ISWI, to form chromatin remodeling factors. BAZ1A (bromodomain adjacent to zinc finger domain, 1A), also known as ACF1, WALp1, hACF1 or WCRF180), is a 1,556 amino acid nuclear protein that is highly expressed in testis and consists of several conserved structures including a bromo domain, a DDT domain, a PHD-type zinc finger and a WAC motif. Belonging to the BAZ/WAL family, BAZ1A is closely related to Williams syndrome transcription factor (WSTF) and may participate in transcriptional regulation and in the formation of heterochromatin, thereby indicating a critical role in developmental control. Together with CHRAC15, CHRAC17 and hSNF2H proteins, BAZ1A forms an ISWI chromatin-remodeling complex.

CHROMOSOMAL LOCATION

Genetic locus: BAZ1A (human) mapping to 14q13.1.

SOURCE

BAZ1A (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of BAZ1A 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-10627 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-10627 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BAZ1A (N-20) is recommended for detection of BAZ1A of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

BAZ1A (N-20) is also recommended for detection of BAZ1A in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for BAZ1A siRNA (h): sc-38623, BAZ1A shRNA Plasmid (h): sc-38623-SH and BAZ1A shRNA (h) Lentiviral Particles: sc-38623-V.

BAZ1A (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

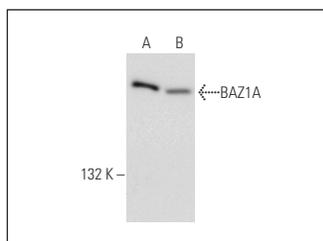
Molecular Weight of BAZ1A: 190 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132 or MOLT-4 nuclear extract: sc-2151.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



BAZ1A (N-20): sc-10627. Western blot analysis of BAZ1A expression in Jurkat (A) and MOLT-4 (B) nuclear extracts.

SELECT PRODUCT CITATIONS

- Ewing, A.K., et al. 2007. Novel regulatory role for human Acf1 in transcriptional repression of vitamin D₃ receptor-regulated genes. *Mol. Endocrinol.* 21: 1791-1806.
- Liu, Y., et al. 2011. An immunohistochemical analysis-based decision tree model for estimating the risk of lymphatic metastasis in pN0 squamous cell carcinomas of the lung. *Histopathology* 59: 882-891.

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 or our catalog for detailed protocols and support products.



Try **BAZ1A (D-5): sc-393164**, our highly recommended monoclonal alternative to BAZ1A (N-20).