

# BAZ1A (D-5): sc-393164



The Power to Question

## 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.

## REFERENCES

1. Poot, R.A., et al. 2000. HuCHRAC, a human ISWI chromatin remodelling complex contains hACF1 and two novel histone-fold proteins. *EMBO J.* 19: 3377-3387.
2. Jones, M.H., et al. 2000. A novel family of bromodomain genes. *Genomics* 63: 40-45.
3. LeRoy, G., et al. 2000. Purification and characterization of a human factor that assembles and remodels chromatin. *J. Biol. Chem.* 275: 14787-14790.

## CHROMOSOMAL LOCATION

Genetic locus: BAZ1A (human) mapping to 14q13.1; Baz1a (mouse) mapping to 12 C1.

## SOURCE

BAZ1A (D-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 8-33 at the N-terminus of BAZ1A of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-393164 X, 200 µg/0.1 ml.

BAZ1A (D-5) is available conjugated to agarose (sc-393164 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393164 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393164 PE), fluorescein (sc-393164 FITC), Alexa Fluor® 488 (sc-393164 AF488), Alexa Fluor® 546 (sc-393164 AF546), Alexa Fluor® 594 (sc-393164 AF594) or Alexa Fluor® 647 (sc-393164 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393164 AF680) or Alexa Fluor® 790 (sc-393164 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393164 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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## APPLICATIONS

BAZ1A (D-5) is recommended for detection of BAZ1A of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 (D-5) 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 siRNA (m): sc-38624, BAZ1A shRNA Plasmid (h): sc-38623-SH, BAZ1A shRNA Plasmid (m): sc-38624-SH, BAZ1A shRNA (h) Lentiviral Particles: sc-38623-V and BAZ1A shRNA (m) Lentiviral Particles: sc-38624-V.

BAZ1A (D-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BAZ1A: 190 kDa.

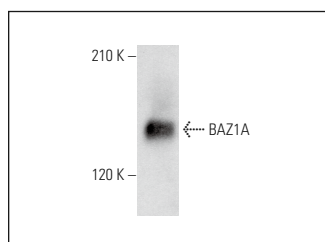
Positive Controls: MOLT-4 nuclear extract: sc-2151 or CTLL-2 cell lysate: sc-2242.

## RECOMMENDED SUPPORT REAGENTS

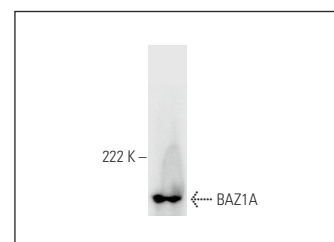
To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



BAZ1A (D-5): sc-393164. Western blot analysis of BAZ1A expression in CTLL-2 whole cell lysate.



BAZ1A (D-5): sc-393164. Western blot analysis of BAZ1A expression in MOLT-4 nuclear extract.

## 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.