

# SBNO2 (A-3): sc-515634



The Power to Question

## BACKGROUND

SBNO2 (protein strawberry notch homolog 2) is a 1,366 amino acid protein that belongs to the SBNO family. Detected in macrophages, SBNO2 seems to have transcriptional repression activity. SBNO2 and ETV3 are components of the pathways that contribute to the downstream anti-inflammatory effects of IL-10. The expression of SBNO2 is regulated by IL-10 in a Stat3-dependent way. Existing as two alternatively spliced isoforms, the SBNO2 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish and *C. elegans*, and maps to human chromosome 19p13.3. GPx-4 and LKB1 are neighbors of SBNO2 on chromosome 19. Chromosome 19 consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19.

## REFERENCES

1. Moodie, S.J., et al. 2002. Analysis of candidate genes on chromosome 19 in coeliac disease: an association study of the KIR and LILR gene clusters. *Eur. J. Immunogenet.* 29: 287-291.
2. Grimwood, J., et al. 2004. The DNA sequence and biology of human chromosome 19. *Nature* 428: 529-535.
3. El Kasmi, K.C., et al. 2007. Cutting edge: a transcriptional repressor and corepressor induced by the STAT3-regulated anti-inflammatory signaling pathway. *J. Immunol.* 179: 7215-7219.

## CHROMOSOMAL LOCATION

Genetic locus: SBNO2 (human) mapping to 19p13.3; Sbn2 (mouse) mapping to 10 C1.

## SOURCE

SBNO2 (A-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1091-1113 within an internal region of SBNO2 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>2b</sub> kappa light chain 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-515634 X, 200 µg/0.1 ml.

SBNO2 (A-3) is available conjugated to agarose (sc-515634 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515634 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515634 PE), fluorescein (sc-515634 FITC), Alexa Fluor® 488 (sc-515634 AF488), Alexa Fluor® 546 (sc-515634 AF546), Alexa Fluor® 594 (sc-515634 AF594) or Alexa Fluor® 647 (sc-515634 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515634 AF680) or Alexa Fluor® 790 (sc-515634 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-515634 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## APPLICATIONS

SBNO2 (A-3) is recommended for detection of SBNO2 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).

Suitable for use as control antibody for SBNO2 siRNA (h): sc-97340, SBNO2 siRNA (m): sc-153234, SBNO2 shRNA Plasmid (h): sc-97340-SH, SBNO2 shRNA Plasmid (m): sc-153234-SH, SBNO2 shRNA (h) Lentiviral Particles: sc-97340-V and SBNO2 shRNA (m) Lentiviral Particles: sc-153234-V.

SBNO2 (A-3) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SBNO2 isoforms 1/2: 150/152 kDa.

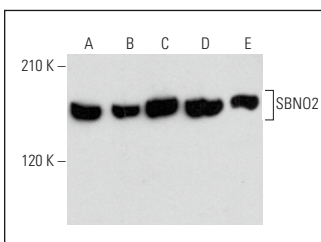
Positive Controls: HeLa whole cell lysate: sc-2200, RAW 264.7 whole cell lysate: sc-2211 or Jurkat whole cell lysate: sc-2204.

## RECOMMENDED SUPPORT REAGENTS

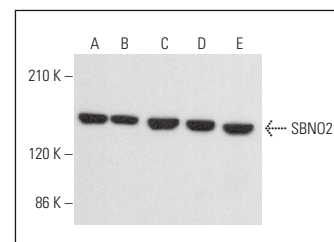
To ensure optimal results, the following support reagents are recommended:

- 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



SBNO2 (A-3): sc-515634. Western blot analysis of SBNO2 expression in HeLa (A), RAW 264.7 (B), Jurkat (C), K-562 (D) and SR (E) whole cell lysates.



SBNO2 (A-3): sc-515634. Western blot analysis of SBNO2 expression in HeLa (A), ALL-SIL (B), SUP-T1 (C) and WEHI-231 (D) whole cell lysates and rat thymus tissue extract (E).

## 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.

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