

NNT-1/BSF-3 (FL-225): sc-33795

BACKGROUND

Neurotrophin-1/B cell-stimulating factor-3 (NNT-1/BSF-3, also known as cardiotrophin-like cytokine) is found mainly in lymph nodes and spleen. NNT-1/BSF-3 induces tyrosine phosphorylation of the signal transducing receptor molecule glycoprotein 130 (gp130), leukemia inhibitory factor receptor β , and signal transducer and activator of transcription 3 in the SK-N-MC human neuroblastoma cells. The activation of gp130 distinguishes a group of cytokines referred to as the IL-6 family. They all show the conserved location of one intron in their gene structure and, in common with cytokines of the hematopoietin superfamily, the presence of a four-helix bundle in their protein structure. In addition to features typical of IL-6 family cytokines, including neurotropic effects, NNT-1/BSF-3 shows B cell-stimulating capability.

REFERENCES

1. Yamasaki, K., Taga, T., Hirata, Y., Yawata, H., Kawanishi, Y., Seed, B., Taniguchi, T., Hirano, T. and Kishimoto, T. 1988. Cloning and expression of the human interleukin-6 (BSF-2/IFN- β 2) receptor. *Science* 241: 825-828.
2. Kishimoto, T., Akira, S., Narazaki, M. and Taga, T. 1995. Interleukin-6 family of cytokines and gp130. *Blood* 86: 1243-1254.

CHROMOSOMAL LOCATION

Genetic locus: CLCF1 (human) mapping to 11q13.2; Clcf1 (mouse) mapping to 19 A.

SOURCE

NNT-1/BSF-3 (FL-225) is a rabbit polyclonal antibody raised against amino acids 1-225 representing full length NNT-1/BSF-3 of human origin.

PRODUCT

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

APPLICATIONS

NNT-1/BSF-3 (FL-225) is recommended for detection of NNT-1/BSF-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

NNT-1/BSF-3 (FL-225) is also recommended for detection of NNT-1/BSF-3 in additional species, including canine.

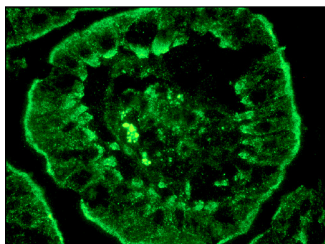
Suitable for use as control antibody for NNT-1/BSF-3 siRNA (h): sc-39685, NNT-1/BSF-3 siRNA (m): sc-39686, NNT-1/BSF-3 shRNA Plasmid (h): sc-39685-SH, NNT-1/BSF-3 shRNA Plasmid (m): sc-39686-SH, NNT-1/BSF-3 shRNA (h) Lentiviral Particles: sc-39685-V and NNT-1/BSF-3 shRNA (m) Lentiviral Particles: sc-39686-V.

Molecular Weight of NNT-1/BSF-3: 28 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



NNT-1/BSF-3 (FL-225): sc-33795. Immunofluorescence staining of normal mouse intestine frozen section showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

1. Nogueira-Silva, C., Piairo, P., Carvalho-Dias, E., Veiga, C., Moura, R.S. and Correia-Pinto, J. 2013. The role of glycoprotein 130 family of cytokines in fetal rat lung development. *PLoS One* 8: e67607.

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.

MONOS
Satisfaction
Guaranteed

Try **NNT-1/BSF-3 (985-1): sc-74243**, our highly recommended monoclonal alternative to NNT-1/BSF-3 (FL-225).