

NIPSNAP3A (E-15): sc-163138

BACKGROUND

NIPSNAP3A (protein NipSnap homolog 3A), also known as TassC (target for *Salmonella* secreted protein C), is a 247 amino acid cytoplasmic protein that belongs to the NipSnap family, which is a family of proteins with putative roles in vesicular transport. While highly expressed in liver, kidney and muscle, NIPSNAP3A is expressed at an intermediate level in brain, heart, colon, thymus, kidney, small intestine, placenta, lung, leukocytes and spleen. Interacting with the *Salmonella* typhimurium virulence protein spi-C, NIPSNAP3A is encoded by a gene that maps to human chromosome 9q31.1. Housing over 900 genes, chromosome 9 comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

- Lee, A.H., et al. 2002. Identification of a NIPSNAP homologue as host cell target for *Salmonella* virulence protein SpiC. *Cell. Microbiol.* 4: 739-750.
- Buechler, C., et al. 2004. Expression pattern and raft association of NIP-SNAP3 and NIPSNAP4, highly homologous proteins encoded by genes in close proximity to the ATP-binding cassette transporter A1. *Genomics* 83: 1116-1124.
- Online Mendelian Inheritance in Man, OMIM[™]. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 608871. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Burmeister, T., et al. 2007. Atypical BCR-ABL mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.
- Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (rendu-osler disease). *Respiration* 74: 361-378.
- Zeit, M.J., et al. 2009. Organization of the amplified type I interferon gene cluster and associated chromosome regions in the interphase nucleus of human osteosarcoma cells. *Chromosome Res.* 17: 305-319.
- Gold-von Simson, G., et al. 2009. Kinetin in familial dysautonomia carriers: implications for a new therapeutic strategy targeting mRNA splicing. *Pediatr. Res.* 65: 341-346.
- Axelrod, F.B., et al. 2010. Neuroimaging supports central pathology in familial dysautonomia. *J. Neurol.* 257: 198-206.

CHROMOSOMAL LOCATION

Genetic locus: NIPSNAP3A (human) mapping to 9q31.1.

SOURCE

NIPSNAP3A (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NIPSNAP3A of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-163138 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NIPSNAP3A (E-15) is recommended for detection of NIPSNAP3A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with NIPSNAP3B.

NIPSNAP3A (E-15) is also recommended for detection of NIPSNAP3A in additional species, including equine.

Suitable for use as control antibody for NIPSNAP3A siRNA (h): sc-92602, NIPSNAP3A shRNA Plasmid (h): sc-92602-SH and NIPSNAP3A shRNA (h) Lentiviral Particles: sc-92602-V.

Molecular Weight of NIPSNAP3A: 28 kDa.

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) 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.

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.