

TNF α -IP 2 (G-17): sc-32155

BACKGROUND

TNF α -induced protein 2, also known as B94 or TNFAIP2, belongs to the Sec6 family and is differentially expressed in development and capillary tube-like formation *in vitro*. It may play a role as a mediator of inflammation and angiogenesis, and is induced by TNF α and other proinflammatory factors. The B94 gene, originally identified as a tumor necrosis factor α -inducible gene in endothelial cells, was one of several genes found to be induced by retinoic acid in acute promyelocytic leukemia and other cancers. The TNFAIP2 gene maps to chromosome 14q32 and encodes a 654 amino acid protein.

REFERENCES

1. Sarma, V., et al. 1992. Cloning of a novel TNF α -inducible primary response gene that is differentially expressed in development and capillary tube-like formation *in vitro*. *J. Immunol.* 148: 3302-3312.
2. Wolf, F.W., et al. 1994. B94, a primary response gene inducible by TNF α , is expressed in developing hematopoietic tissues and the sperm acrosome. *J. Biol. Chem.* 269: 3633-3640.
3. Rusiniak, M.E., et al. 2000. Identification of B94 (TNFAIP2) as a potential retinoic acid target gene in acute promyelocytic leukemia. *Cancer Res.* 60: 1824-1829.
4. Einstein, M.H., et al. 2002. Utilization of the human genome sequence localizes human papillomavirus type 16 DNA integrated into the TNFAIP2 gene in a fatal cervical cancer from a 39-year-old woman. *Clin. Cancer Res.* 8: 549-554.
5. Park, D.J., et al. 2003. Comparative analysis of genes regulated by PML/RAR α and PLZF/RAR α in response to retinoic acid using oligonucleotide arrays. *Blood* 102: 3727-3736.
6. Ma, Y., et al. 2003. Microarray analysis uncovers retinoid targets in human bronchial epithelial cells. *Oncogene* 22: 4924-4932.
7. LocusLink Report (LocusID: 7127). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: TNFAIP2 (human) mapping to 14q32.32; Tnfaip2 (mouse) mapping to 12 F1

SOURCE

TNF α -IP 2 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TNF α -induced protein 2 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.

Blocking peptide available for competition studies, sc-32155 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

TNF α -IP 2 (G-17) is recommended for detection of TNF α -IP 2 of mouse, rat and 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).

TNF α -IP 2 (G-17) is also recommended for detection of TNF α -IP 2 in additional species, including canine and bovine.

Suitable for use as control antibody for TNF α -IP 2 siRNA (h): sc-45826, TNF α -IP 2 siRNA (m): sc-45827, TNF α -IP 2 shRNA Plasmid (h): sc-45826-SH, TNF α -IP 2 shRNA Plasmid (m): sc-45827-SH, TNF α -IP 2 shRNA (h) Lentiviral Particles: sc-45826-V and TNF α -IP 2 shRNA (m) Lentiviral Particles: sc-45827-V.

Molecular Weight of TNF α -IP 2: 73 kDa.

Positive Controls: U-937 cell lysate: sc-2239, U-937 + TNF α cell lysate: sc-2297 or K-562 whole cell lysate: sc-2203.

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.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **TNF α -IP 2 (F-6): sc-28318** or **TNF α -IP 2 (C-6): sc-48418**, our highly recommended monoclonal alternatives to TNF α -IP 2 (G-17). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **TNF α -IP 2 (F-6): sc-28318**.