

TNF α -IP 8L1 (F-14): sc-82760

BACKGROUND

Tumor necrosis factor, α -induced protein 8-like 1, also known as TNF α -IP 8L1, is a 186 amino acid protein belonging to the TNF α -IP 8 family. Members of the TNF α -IP 8 family are induced by nuclear factor- κ B 9 (NF κ B) and tumor necrosis factor (TNF), although induction by TNF is dependent upon NF κ B activation. TNF α -IP 8 proteins also act as a negative mediator of apoptosis and may play a role in tumor progression. They suppress TNF-mediated apoptosis by inhibiting caspase-8 activity but not the processing of procaspase-8, subsequently resulting in inhibition of BID cleavage and caspase-3 activation.

REFERENCES

1. Cross, S.J., Tonks, S., Trowsdale, J. and Campbell, R.D. 1991. Novel detection of restriction fragment length polymorphisms in the human major histocompatibility complex. *Immunogenetics* 34: 376-384.
2. Patel, S., Wang, F.H., Whiteside, T.L. and Kasid, U. 1997. Identification of seven differentially displayed transcripts in human primary and matched metastatic head and neck squamous cell carcinoma cell lines: implications in metastasis and/or radiation response. *Oral Oncol.* 33: 197-203.
3. Horrevoets, A.J., Fontijn, R.D., van Zonneveld, A.J., de Vries, C.J., ten Cate, J.W. and Pannekoek, H. 1999. Vascular endothelial genes that are responsive to tumor necrosis factor- α *in vitro* are expressed in atherosclerotic lesions, including inhibitor of apoptosis protein-1, stannin, and two novel genes. *Blood* 93: 3418-3431.
4. Kumar, D., Whiteside, T.L. and Kasid, U. 2000. Identification of a novel tumor necrosis factor- α -inducible gene, SCC-S2, containing the consensus sequence of a death effector domain of fas-associated death domain-like interleukin-1 β -converting enzyme-inhibitory protein. *J. Biol. Chem.* 275: 2973-2978.
5. You, Z., Ouyang, H., Lopatin, D., Polver, P.J. and Wang, C.Y. 2001. Nuclear factor- κ B-inducible death effector domain-containing protein suppresses tumor necrosis factor-mediated apoptosis by inhibiting caspase-8 activity. *J. Biol. Chem.* 276: 26398-26404.
6. Kumar, D., Gokhale, P., Broustas, C., Chakravarty, D., Ahmad, I. and Kasid, U. 2004. Expression of SCC-S2, an antiapoptotic molecule, correlates with enhanced proliferation and tumorigenicity of MDA-MB 435 cells. *Oncogene* 23: 612-616.
7. Zhang, C., Chakravarty, D., Sakabe, I., Mewani, R.R., Boudreau, H.E., Kumar, D., Ahmad, I. and Kasid, U.N. 2006. Role of SCC-S2 in experimental metastasis and modulation of VEGFR-2, MMP-1, and MMP-9 expression. *Mol. Ther.* 13: 947-955.

CHROMOSOMAL LOCATION

Genetic locus: TNFAIP8L1 (human) mapping to 19p13.3.

SOURCE

TNF α -IP 8L1 (F-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TNF α -IP 8L1 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-82760 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TNF α -IP 8L1 (F-14) is recommended for detection of TNF α -IP 8L1 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).

Suitable for use as control antibody for TNF α -IP 8L1 siRNA (h): sc-76700, TNF α -IP 8L1 shRNA Plasmid (h): sc-76700-SH and TNF α -IP 8L1 shRNA (h) Lentiviral Particles: sc-76700-V.

Molecular Weight of TNF α -IP 8L1: 21 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.

STORAGE

Store at 4 $^{\circ}$ 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.