

TNF α -IP 8L2 (Y-16): sc-82061

BACKGROUND

TNF α -IP 8L2 (tumor necrosis factor, α -induced protein 8-like 2), also known as TIPE2, is a 184 amino acid protein that shares 94% identity with its mouse counterpart and belongs to the TNFAIP8 family. Expressed in spleen, thymus, small intestine and lymph node with lower levels present in colon, lung and skin, TNF α -IP 8L2 plays a role in maintaining immune homeostasis, specifically by acting as a negative regulator of both innate and adaptive immunity. In addition, TNF α -IP 8L2 functions as a negative regulator of T cell receptor function and is thought to promote FAS-induced apoptosis. The gene encoding TNF α -IP 8L2 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome.

REFERENCES

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2. Freundt, E.C., Bidere, N. and Lenardo, M.J. 2008. A different TIPE of immune homeostasis. *Cell* 133: 401-402.
3. Sun, H., Gong, S., Carmody, R.J., Hilliard, A., Li, L., Sun, J., Kong, L., Xu, L., Hilliard, B., Hu, S., Shen, H., Yang, X. and Chen, Y.H. 2008. TIPE2, a negative regulator of innate and adaptive immunity that maintains immune homeostasis. *Cell* 133: 415-426.
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CHROMOSOMAL LOCATION

Genetic locus: TNFAIP8L2 (human) mapping to 1q21.3.

SOURCE

TNF α -IP 8L2 (Y-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TNF α -IP 8L2 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-82061 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

TNF α -IP 8L2 (Y-16) is recommended for detection of TNF α -IP 8L2 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).

TNF α -IP 8L2 (Y-16) is also recommended for detection of TNF α -IP 8L2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TNF α -IP 8L2 siRNA (h): sc-76702, TNF α -IP 8L2 shRNA Plasmid (h): sc-76702-SH and TNF α -IP 8L2 shRNA (h) Lentiviral Particles: sc-76702-V.

Molecular Weight of TNF α -IP 8L2: 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.

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.