# TNF $\alpha$ -IP 8L2 (C-18): sc-82058



The Power to Question

#### **BACKGROUND**

TNF $\alpha$ -IP 8L2 (tumor necrosis factor,  $\alpha$ -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 $\alpha$ -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 $\alpha$ -IP 8L2 functions as a negative regulator of T cell receptor function and is thought to promote FAS-induced apoptosis. The gene encoding TNF $\alpha$ -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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## **CHROMOSOMAL LOCATION**

Genetic locus: TNFAIP8L2 (human) mapping to 1q21.3; Tnfaip8I2 (mouse) mapping to 3 F2.1.

## **SOURCE**

TNF $\alpha$ -IP 8L2 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TNF $\alpha$ -IP 8L2 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82058 P, (100  $\mu g$  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 $\alpha$ -IP 8L2 (C-18) is recommended for detection of TNF $\alpha$ -IP 8L2 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 $\alpha$ -IP 8L2 (C-18) is also recommended for detection of TNF $\alpha$ -IP 8L2 in additional species, including equine and bovine.

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

Molecular Weight of TNFα-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.

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