abcam

ab8097

Anti-TNF alpha antibody [V1q(H8)]

Lab Essentials

Key facts

Isotype	IgD
Host species	Rat
Storage buffer	Standard buffer
Form	Liquid
Clonality	Monoclonal
Clone number	V1q(H8)
Specificity	Anti-mouse TNF-a reacts with both natural and recombinant TNF-a and shows neutralizing activity.
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Mouse
Dilution info	-
Notes	Stains the extracellular domain. The CHO cells were fixed in PBA containing 0.2 % formaldehyde before staining.

FuncS (Neut/Block)

Expected

Species	Mouse
Dilution info	-
Notes	The antibody was functionally tested by neutralization of the cytopathic effect of cytotoxin in the L929 TNF bioassay. The biological activity of the antibody can be defined as the concentration of V1q required to neutralize 100 U/ml of TNF/cytotoxin.

Target data

See full target information Tnf

Function	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation (By similarity). Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance (PubMed:25586176). Plays a role in angiogenesis by inducing VEGF production synergistically with IL1B and IL6 (By similarity). Promotes osteoclastogenesis and therefore mediates bone resorption (PubMed:32741026). The TNF intracellular domain (ICD) form induces IL12 production in dendritic cells.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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