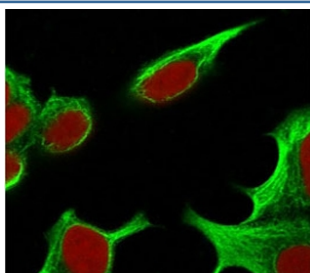


TNF alpha Antibody [clone TMDa1-1] (V7163)

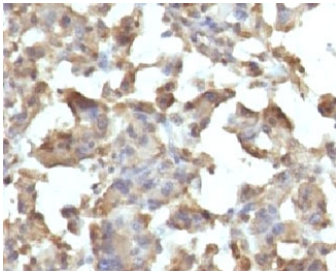
Catalog No.	Formulation	Size
V7163-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7163-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7163SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

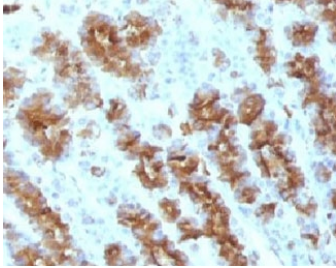
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM, kappa
Clone Name	TMDa1-1
Purity	PEG precipitation
UniProt	P01375
Localization	Cytoplasmic and extracellular (secreted)
Applications	Immunofluorescence : 1-2ug/ml Flow Cytometry : 1-2ug/10 ⁶ cells Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
Limitations	This TNF alpha antibody is available for research use only.



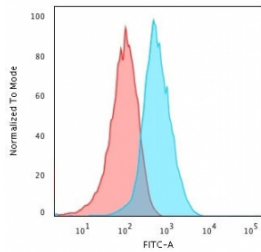
Immunofluorescent staining of PFA-fixed human HepG2 cells with TNF-alpha antibody (green, clone TMDa1-1) and Reddot nuclear stain (red).



IHC testing of FFPE human histiocytoma and TNF alpha antibody (clone TMDa1-1). Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE rat stomach and TNF alpha antibody (clone TMDa1-1). Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



Flow cytometry testing of PFA-fixed human HepG2 cells with TNF-alpha antibody (clone TMDa1-1); Red=isotype control, Blue= TNF-alpha antibody.

Description

Tumor Necrosis Factor Alpha (TNF alpha) is a cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. 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. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Upregulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective. Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line. [UniProt]

Application Notes

Titration of the TNF alpha antibody may be required for optimal performance.

Immunogen

Full length human recombinant protein was used as the immunogen for the TNF alpha antibody.

Storage

Store the TNF alpha antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

