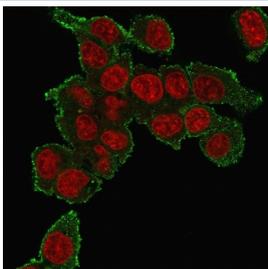


TNF α Antibody / TNF alpha [clone TNF706] (V2903)

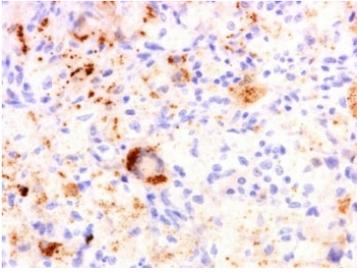
Catalog No.	Formulation	Size
V2903-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2903-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2903SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

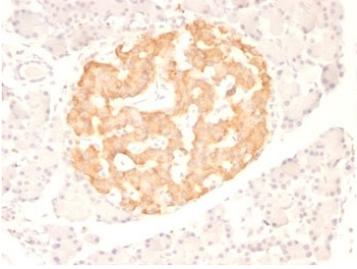
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM, kappa
Clone Name	TNF706
Purity	PEG precipitation
UniProt	P01375
Localization	Cytoplasmic and extracellular (secreted)
Applications	Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
Limitations	This TNF α antibody is available for research use only.



Immunofluorescent staining of human HepG2 cells with TNF α antibody (green, clone TNF706) and Reddot nuclear stain (red).



IHC: Formalin-fixed, paraffin-embedded human Erdheim Chester disease (also known as polyostotic sclerosing histiocytosis) stained with TNFα antibody (clone TNF706).



IHC: Formalin-fixed, paraffin-embedded rat pancreas stained with TNFα antibody (clone TNF706).

Description

TNFα antibody clone TNF706 is a monoclonal antibody specific for tumor necrosis factor alpha, a central cytokine in inflammation and immune regulation. TNF-α is produced by activated macrophages, lymphocytes, and other immune cells, exerting effects on apoptosis, cell survival, and cytokine cascades. Its activity is crucial in infection and immunity but is also implicated in chronic inflammation and tumor biology. NSJ Bioreagents supplies this antibody for research across immunology, inflammation, and oncology.

The antibody produces strong staining in activated monocytes and macrophages. In immunology, it is a standard reagent for studying cytokine signaling, immune activation, and the molecular pathways driving inflammation. Its reproducibility makes it well suited for models of immune-mediated disease.

In autoimmune and chronic inflammatory disorders, TNF-α detection has provided valuable insight into disease mechanisms. The antibody has been used to explore cytokine dysregulation in conditions such as rheumatoid arthritis, inflammatory bowel disease, and psoriasis. Because TNF-α is a therapeutic target in these diseases, this antibody supports translational research into new treatment strategies.

In oncology, TNFα antibody clone TNF706 has been applied to studies of tumor microenvironments, where chronic inflammatory signaling can sustain malignant growth. TNF-α has a paradoxical role, promoting tumor necrosis in some contexts while enhancing angiogenesis and proliferation in others. Detecting its expression helps clarify the balance between anti-tumor and pro-tumor activities.

In infectious disease biology, TNF-α is a major effector of host defense. Detection with this antibody enables investigation into pathogen-induced cytokine release, septic shock, and immune dysregulation. It has been applied to research on bacterial and viral infections where cytokine storms drive pathology.

Validated in both tissue-based and cell-based systems, the antibody consistently produces specific staining with minimal background. Alternate names include tumor necrosis factor antibody, cachectin antibody, and proinflammatory cytokine TNF-α antibody.

Application Notes

Optimal dilution of the TNFα antibody should be determined by the researcher.

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.

Immunogen

An N-terminal recombinant protein fragment was used as the immunogen for the TNFa antibody.

Storage

Store the TNFa antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).