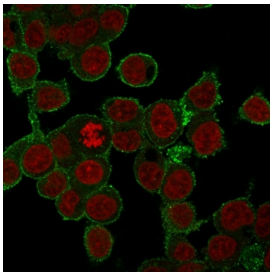
Anti-TNF-alpha Antibody [clone SPM543] (V9088)

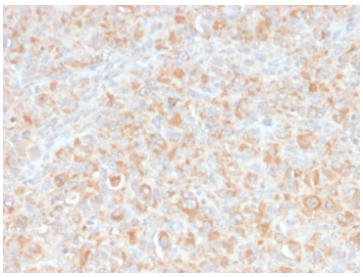
Catalog No.	Formulation	Size
V9088-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V9088-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V9088SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM, kappa
Clone Name	SPM543
Purity	Protein G affinity chromatography
UniProt	P01375
Localization	Cytoplasmic and extracellular (secreted)
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Immunofluorescence: 1-2ug/ml
Limitations	This anti-TNF-alpha antibody is available for research use only.



Immunofluorescent staining of FFPE human HepG2 cells with anti-TNF-alpha antibody (green) and RedDot nuclear stain (red).



IHC staining of FFPE human histiocytoma with anti-TNF-alpha antibody. HIER: boil tissue sections in pH9 EDTA for 20 min and allow to cool before testing.

Description

Tumor Necrosis Factor Alpha (TNF alpha) is a protein secreted by lipopolysaccharide-stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. TNF alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF alpha exists as a multimer of two, three, or five non-covalently linked units, but shows a single 17kDa band following SDS PAGE under non-reducing conditions. TNF alpha is closely related to the 25kDa protein Tumor Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex.

Application Notes

The optimal dilution of the anti-TNF-alpha antibody for each application should be determined by the researcher.

Immunogen

Amino acids 115-130 of the human protein was used as the immunogen for this anti-TNF alpha antibody.

Storage

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

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