



Mouse Anti-Human TNFA monoclonel antibody, clone NBc22 (CABT-BL8359U)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse Anti-Human TNFA monoclonel antibody, clone NBc22
Specificity	This antibody reacts with human tumor necrosis factor-alpha (TNF alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4+ T cells.
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Cynomolgus Monkey, Human, Mouse, Non-human primate, Rhesus monkey
Clone	NBc22
Purification	Affinity purified
Conjugate	Unconjugated
Applications	FC
Format	Liquid
Concentration	Lot specific
Size	500 µg
Buffer	PBS, pH 7.2
Preservative	0.09% sodium azide
Storage	The antibody solution should be stored undiluted between 2°C and 8°C

BACKGROUND

Introduction

TNF alpha is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophage and bind to its receptors, TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. TNF alpha is involved in the regulation of immune cells, cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. TNF alpha exists as a multimer of two, three, or five noncovalently linked units, but shows a single 17 kDa band following SDS-PAGE under non-reducing conditions. Knockout studies in mice also suggested the neuroprotective function of TNF alpha, and has been observed to causes tumor necrosis when injected into tumor-bearing mice. Other functions of TNF-alpha include its role in the immune response to bacterial, viral, parasitic and certain fungal infections, as well as its role in the necrosis of specific tumors. TNF alpha causes cytolysis or cytostasis of certain transformed cells, being synergistic with interferon-gamma in its cytotoxicity. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer.

Keywords TNF;DIF;TNFA;TNFSF2;TNF-alpha;TNLG1F;Tumor necrosis factor

GENE INFORMATION

Official Symbol tumor necrosis factor

Synonyms TNF; tumor necrosis factor; DIF; TNFA; TNFSF2; TNF-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; cachectin; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha