

Rabbit anti-Human TNF-alpha/TNFA/TNFSF2 Monoclonal Antibody | anti-TNF antibody

TNF-alpha/TNFA/TNFSF2 Neutralizing Antibody

CATALOG # AAA255020	HOST Rabbit	REACTIVITY Human	APPLICATIONS Neutralization Assay, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

TNF-alpha/TNFA/TNFSF2; Monoclonal Antibody; TNF-alpha/TNFA/TNFSF2 Neutralizing Antibody; tumor necrosis factor; Anti-DIF Antibody; Anti-TNF-alpha Antibody; Anti-TNFA Antibody; Anti-TNFSF2 Antibody; anti-TNF antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	R101
Specificity	Human TNF-alpha/TNFA. No cross-reactivity in ELISA with Mouse TNFa, Rat TNFa Has cross-reactivity in ELISA with Cynomolgus TNFa, Canine TNFa, Ferret TNFa
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TNF antibody	NTRL (Neutralization Assay), Blocking, FCM/FACS (Flow Cytometry)
Immunogen	Recombinant Human TNF-alpha/TNFA protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human TNF-alpha/TNFA (rHuman TNF-alpha/TNFA) and was produced using recombinant antibody technology.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human TNF-alpha expression on human peripheral blood lymphocytes. Human peripheral blood mononuclear cells were stimulated for 4-6 hours with PMA and Ionomycin in the presence of GolgiPlug. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human TNF-alpha, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.



Application Data

The neutralization activity of antibody is measured by its ability to neutralize TNFa induced cytotoxicity in the L-929 mouse fibroblast cell line. The Neutralization titer (IC50) is typically 13.5-54 ng/mL in the presence of 0.25 ng/mL Recombinant Human TNFa and 1 ug/mL actinomycin D.

ADDITIONAL INFORMATION

Related Product Information for anti-TNF antibody	Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment.TNF-alpha Protein & Antibody
Product Categories/Family for anti-TNF antibody	Cancer Drug Targets Neuroinflammation; Death Receptor Signaling
References	Hector J, et al. (2007) TNF-alpha alters visfatin and adiponectin levels in human fat. Horm Metab Res. 39(4): 250-5. Berthold-Losleben M, et al. (2008) The TNF-alpha System: Functional Aspects in Depression, Narcolepsy and Psychopharmacology. Curr Neuropharmacol. 6(3): 193-202.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25952111
NCBI GeneID	7124
NCBI Accession #	NP_000585.2
NCBI GenBank Nucleotide #	NM_000594.3
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3
Molecular Weight	25,644 Da
NCBI Official Full Name	tumor necrosis factor
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNF-alpha
NCBI Protein Information	tumor necrosis factor; TNF-a; cachectin; APC1 protein; TNF, monocyte-derived; TNF, macrophage-derived; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.