

Dog tumor necrosis factor (TNF superfamily, member 2) ELISA Kit | TNF elisa kit

Dog Tumor necrosis factor alpha, TNF-alpha ELISA Kit

CATALOG #
AAA80437

REACTIVITY
Dog

PRODUCT SYNONYMS

tumor necrosis factor (TNF superfamily; member 2); Dog Tumor necrosis factor alpha; TNF-alpha ELISA Kit; DADB-70P7.1; DIF; TNF-alpha; TNFA; TNFSF2; APC1 protein; TNF superfamily; member 2; TNF; macrophage-derived; monocyte-derived; cachectin; tumor necrosis factor alpha; TNF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Dog
Specificity	This assay has high sensitivity and excellent specificity for detection of Dog TNF. No significant cross-reactivity or interference between Dog TNF and analogues was observed.
Sequence Length	233
Samples	Serum, plasma and tissue homogenates
Detection Range	0.156 ng/ml-10 ng/ml
Sensitivity	0.039 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNF elisa kit

Introduction: The prototype ligand of the TNF superfamily, TNF-alpha/TNFSF1A, is a pleiotropic cytokine that plays a central role in inflammation and apoptosis. It is synthesized as a 26 kDa, type II transmembrane protein that is 233 amino acids in length. It contains a 30 amino acid (aa) cytoplasmic domain, a 26 aa transmembrane segment, and a 177 aa extracellular region. TNF-alpha is assembled intracellularly to form a transmembrane, non-covalently-linked homotrimeric protein. The 157 aa residue soluble form of TNF-alpha (sTNF-alpha) is released from the C-terminus of the transmembrane protein through the activity of TNF-alpha-converting enzyme (TACE), a membrane-bound disintegrin metalloproteinase. Human cells known to express TNF-alpha include B cells, colonic columnar epithelial cells, NK and CD3+CD56+ hepatic natural T cells, macrophages, monocytes and monocyte-derived dendritic cells, CD4+ and CD8+ T cells, mast cells, neutrophils, keratinocytes, plasma cells, and adipocytes.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TNF-alpha. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for TNF-alpha. and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain TNF-alpha., biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of TNF-alpha. in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116812910
NCBI GeneID	403922
NCBI Accession #	NP_001003244.4
NCBI GenBank Nucleotide #	NM_001003244.4
UniProt Accession #	P51742; Q006K5; Q28339
Molecular Weight	25,447 Da
NCBI Official Full Name	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	TNFA; cTNF
NCBI Protein Information	tumor necrosis factor; TNF-a; TNF-alpha; cachectin; tumour necrosis factor; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); 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_CANFA

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/dog-elisa-kits/tumor-necrosis-factor-tnf-superfamily-member-2/80437>