

Mouse TNF-alpha CLIA Kit | TNF-alpha clia kit

TNF-alpha (Murine) LumiAb ELISA Kit

CATALOG #
AAA318582

REACTIVITY
Mouse

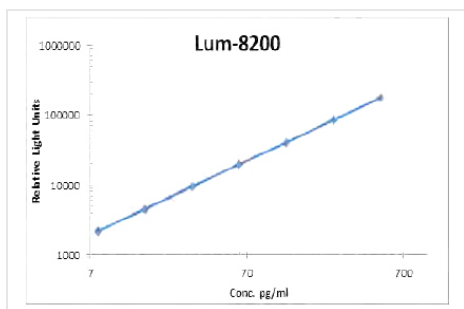
PRODUCT SYNONYMS

TNF-alpha; TNF-alpha (Murine) LumiAb ELISA Kit; Murine TNF-alpha; Tumor necrosis factor; Cachectin; Tumor necrosis factor ligand superfamily member 2; TNFSF2; TNF-alpha clia kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The LumiAb Murine sRANK-Ligand ELISA is capable of recognizing both recombinant and naturally produced Murine sRANK-Ligand proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Sequence Length	219
Assay Type	Quantitative Sandwich
Sensitivity	14 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNF-alpha clia kit	Principle of the Assay: The LumiAb Murine sRANK Ligand Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Murine sRANK Ligand concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Murine sRANK Ligand while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Murine sRANK-Ligand or Soluble Receptor Activator of NF-kappaB Ligand, also known as Tumor Necrosis Factor Ligand Superfamily Member 11, is a 316 amino acid cytokine protein expressed from the Tnfsf11 gene located on chromosome 14. The peptide chain that exists from residue 1-36 is the membrane form of the RANK-Ligand while the chain that exists from residue 139-178 is the soluble form of the RANK-Ligand. The soluble form of isoform 1 derives from the membrane form by proteolytic processing. The cleavage may be catalyzed by ADAM17. The sRANK-Ligand is the cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK and acts as an osteoclast differentiation and activation factor. Moreover, the sRANK-Ligand homotrimer augments the ability of dendritic cells to stimulate naive T-cell proliferation, and thus may be an important regulator of interactions between T-cells and dendritic cells as well as T-cell-dependent immune responses. It is highly expressed in thymus and lymph nodes, but not in non-lymphoid tissues and is abundantly expressed in T-cells but not in B-cells; a high level expression is also seen in the trabecular bone and lung. Deficiency in Tnfsf11 results in failure to form lobulo-alveolar mammary structures during pregnancy, resulting in death of newborns. Trance-deficient mice show severe osteopetrosis, with no osteoclasts, marrow spaces, or tooth eruption, and exhibit profound growth retardation at several skeletal sites, including the limbs, skull, and vertebrae and have marked chondrodysplasia, with thick, irregular growth plates and a relative increase in hypertrophic chondrocytes.
Product Categories/Family for TNF-alpha clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	518831589
NCBI GeneID	21926
NCBI Accession #	NP_001265530.1
NCBI GenBank Nucleotide #	NM_001278601.1
UniProt Accession #	P06804
NCBI Official Full Name	tumor necrosis factor isoform 2
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	Tnf
NCBI Official Synonym Symbols	DIF; Tnfa; TNF-a; TNFSF2; Tnlg1f; Tnfsf1a; TNFalpha; TNF-alpha
NCBI Protein Information	tumor necrosis factor
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_MOUSE

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.

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Online datasheet: <https://www.aaabiotech.com/mouse-clia-kits/tnf-alpha/318582>