

Human TACI CLIA Kit | TACI clia kit

TACI (Human) LumiAb ELISA Kit

CATALOG #
AAA318560

REACTIVITY
Human

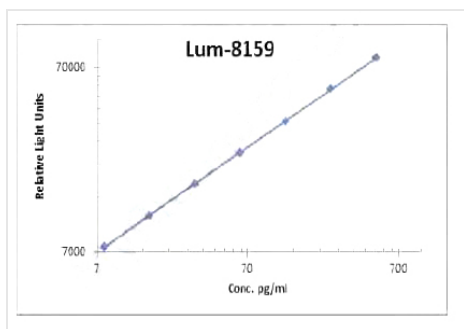
PRODUCT SYNONYMS

TACI; TACI (Human) LumiAb ELISA Kit; Human TACI; Tumor necrosis factor receptor superfamily member 13B; Transmembrane activator and CAML interactor; CD267; TACI clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human sCD40 Ligand ELISA is capable of recognizing both recombinant and naturally produced Human sCD40 Ligand proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	293
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TACI clia kit	Principle of the Assay: The LumiAb Human sCD40 Ligand Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human sCD40 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 Human sCD40 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: Human sCD40 Ligand, also known as Tumor Necrosis Factor Ligand Superfamily Member 5, is a 149 amino acid cytokine protein encoded by the CD40LG gene located at locus Xq26 on the X chromosome. The soluble CD40 ligand is generated when the membrane form of the CD40 ligand undergoes proteolytic processing to remove the first 112 residues from the N-terminal region. The homotrimeric soluble CD40 ligand Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4; it is involved in immunoglobulin class switching. Moreover, release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and the matrix metalloproteinases (MMP) inhibitor-sensitive pathway. Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1), also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isoform switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isoforms. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including Pneumocystis carinii pneumonia and intractable diarrhea due to cryptosporidium infection.
Product Categories/Family for TACI clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912694
NCBI GeneID	23495
NCBI Accession #	NP_036584.1
NCBI GenBank Nucleotide #	NM_012452.2
UniProt Accession #	O14836
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 13B
NCBI Official Synonym Full Names	TNF receptor superfamily member 13B
NCBI Official Symbol	TNFRSF13B
NCBI Official Synonym Symbols	CVID; RYZN; TACI; CD267; CVID2; IGAD2; TNFRSF14B
NCBI Protein Information	tumor necrosis factor receptor superfamily member 13B
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 13B
UniProt Gene Name	TNFRSF13B
UniProt Synonym Gene Names	TACI

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.