

Human TWEAK CLIA Kit | TWEAK clia kit

TWEAK (Human) LumiAb ELISA Kit

CATALOG #
AAA318564

REACTIVITY
Human

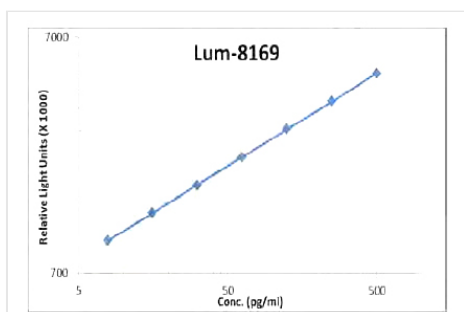
PRODUCT SYNONYMS

TWEAK; TWEAK (Human) LumiAb ELISA Kit; Human TWEAK; Tumor necrosis factor ligand superfamily member 12; APO3 ligand; TNF-related weak inducer of apoptosis; APO3L; DR3LG; TWEAK clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human TPO ELISA is capable of recognizing both recombinant and naturally produced Human TPO proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Sequence Length	780
Assay Type	Quantitative Sandwich
Sensitivity	15 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TWEAK clia kit	Principle of the Assay: The LumiAb Human TPO Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human TPO 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 TPO 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 TPO, also known as Thyroid Peroxidase, is a 933 amino acid enzyme encoded by the TPO gene located at locus 2p25 on chromosome 2. After initial synthesis of the peptide, the protein is proteolytically cleaved into its 14 residue signal peptide and mature 919 residue TPO protein. TPO is essentially a membrane-bound glycoprotein that acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination and coupling of hormonogenic tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones: thyroxine (T4) and triiodothyronine (T3). TPO is stimulated by TSH, which upregulates gene expression and is inhibited by the thioamide drugs such as propylthiouracil and methimazole. Mutations in this gene are often associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full length nature of some variants has not been determined.
Product Categories/Family for TWEAK clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	74958325
NCBI GeneID	8742
UniProt Accession #	O44008; O43508
NCBI Official Full Name	Valosin-containing protein homolog
NCBI Official Synonym Full Names	TNF superfamily member 12
NCBI Official Symbol	TNFSF12
NCBI Official Synonym Symbols	APO3L; DR3LG; TWEAK; TNLG4A
NCBI Protein Information	tumor necrosis factor ligand superfamily member 12

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/human-clia-kits/tweak/318564>