

Human TGFbeta-R3 CLIA Kit | TGFbeta-R3 clia kit

TGFbeta-R3 (Human) LumiAb ELISA Kit

CATALOG #
AAA318598

REACTIVITY
Human

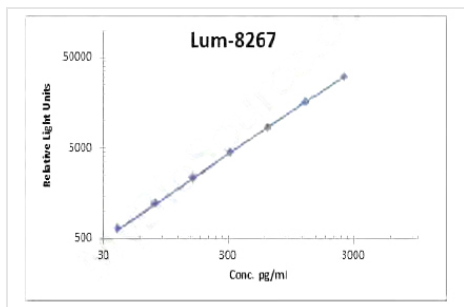
PRODUCT SYNONYMS

TGFbeta-R3; TGFbeta-R3 (Human) LumiAb ELISA Kit; Human TGFbeta-R3; Transforming growth factor beta receptor type 3; Betaglycan; Transforming growth factor beta receptor III; TGFbeta-R3 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human TGF-beta3 ELISA is capable of recognizing both recombinant and naturally produced Human TGF-beta3 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	850
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 TGFbeta-R3 clia kit	Principle of the Assay: The LumiAb Human TGF-beta3 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human TGF-beta3 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 TGF-beta3 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 TGF-beta3 encodes a member of the TGF-beta family of proteins. The encoded protein is secreted and is involved in embryogenesis and cell differentiation. Defects in this gene are a cause of familial arrhythmogenic right ventricular dysplasia 1 while defects in TGF-beta3 are a cause of familial arrhythmogenic right ventricular dysplasia type 1 (ARVD1), also known as arrhythmogenic right ventricular cardiomyopathy 1 (ARVC1). ARVD is an autosomal dominant disease characterized by partial degeneration of the myocardium of the right ventricle, electrical instability, and sudden death. It is clinically defined by electrocardiographic and angiographic criteria; pathologic findings, replacement of ventricular myocardium with fatty and fibrous elements, preferentially involve the right ventricular free wall.
Product Categories/Family for TGFbeta-R3 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	307574634
NCBI GeneID	7049
NCBI Accession #	NP_001182613.1
NCBI GenBank Nucleotide #	NM_001195684.1
UniProt Accession #	Q03167
NCBI Official Full Name	transforming growth factor beta receptor type 3 isoform b
NCBI Official Synonym Full Names	transforming growth factor beta receptor 3
NCBI Official Symbol	TGFB3
NCBI Official Synonym Symbols	BGCAN; betaglycan
NCBI Protein Information	transforming growth factor beta receptor type 3
UniProt Protein Name	Transforming growth factor beta receptor type 3
UniProt Gene Name	TGFB3
UniProt Synonym Gene Names	TGF-beta receptor type 3; TGFR-3
UniProt Entry Name	TGFR3_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.