Collagen Type IV Alpha-3-Binding (COL4A3BP) ELISA Kit for Human

PRODUCT OVERVIEW

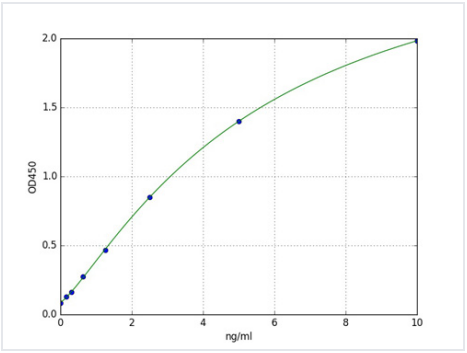
Product Name	Collagen type IV alpha-3-binding protein (COL4A3BP), ELISA Kit
Full Product Name	Human Collagen type IV alpha-3-binding protein ELISA Kit
Product Gene Name	COL4A3BP elisa kit
Product Synonym Names	COL4A3BP/Collagen type IV alpha-3-binding protein/StAR-related lipid transfer protein 11/START domain-containing protein 11/StARD11/Ceramide transfer protein/hCERT/Goodpasture antigen-binding protein/GPBP//CERT/CERTL/FLJ20597/STARD11
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	35,929 Da
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for COL4A3BP elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human COL4A3BP antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human COL4A3BP antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human COL4A3BP amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human COL4A3BP can be calculated.
Other Notes	Small volumes of COL4A3BP elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for COL4A3BP purchase	MBS763392 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Collagen type IV alpha-3-binding protein (COL4A3BP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing COL4A3BP. The ELISA analytical biochemical technique of the MBS763392 kit is based on COL4A3BP antibody-COL4A3BP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect COL4A3BP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, COL4A3BP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a Human COL4A3BP ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.033	0.102	0.166	0.349	0.617	1.135	1.820	2.275

Typical Testing Data of COL4A3BP elisa kit



Typical Standard Curve of COL4A3BP elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COL4A3BP. It may not necessarily be applicable to this product.

NCBI GI #	255982524
NCBI GeneID	68018
NCBI Accession #	NP_001157694.1
UniProt Secondary Accession #	Q3TQF6; Q8BNN8; Q8C8H3; Q8CAR3; Q91WB1; Q9CU52; Q9EQG8
UniProt Related Accession #	Q9EQG9
GenBank Nucleotide #	NM_001164222.1
NCBI Official Full Name	collagen type IV alpha-3-binding protein isoform 2
NCBI Official Synonym Full Names	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein
NCBI Official Symbol	Col4a3bp
NCBI Official Synonym Symbols	CERT; GPBP; AU016711; 2810404O15Rik; 9230101K08Rik
UniProt Protein Name	Collagen type IV alpha-3-binding protein
UniProt Synonym Protein Names	Ceramide transfer protein; Goodpasture antigen-binding protein; GPBP; START domain-containing protein 11; StARD11; StAR-related lipid transfer protein 11
Protein Family	Collagen type IV alpha-3-binding protein
UniProt Gene Name	Col4a3bp
UniProt Synonym Gene Names	Stard11; GPBP; StARD11
UniProt Entry Name	C43BP_MOUSE
NCBI Protein Information	collagen type IV alpha-3-binding protein

UniProt Comments for COL4A3BP	COL4A3BP: a protein with a lipid-binding domain that mediates intracellular trafficking of ceramide in a non-vesicular manner. Implicated in human autoimmune diseases via its association with the Goodpasture antigen. Phosphorylation on Ser-132 decreases the affinity toward phosphatidylinositol 4-phosphate at Golgi membranes and reduces ceramide transfer activity. GPBP has been reported to have Ser/Thr protein kinase activity towards the Goodpasture (GP) antigen, but lacks a conventional serine/threonine kinase domain. Two human isoforms of the human protein are produced by alternative splicing. Protein type: Lipid-binding; Protein kinase, atypical; Kinase, protein; EC 2.7.11.9; Protein kinase, Ser/Thr (non-receptor); ATYPICAL group; COL4A3BP family Cellular Component: cytoplasm; cytosol; endoplasmic reticulum; Golgi apparatus; mitochondrion; nucleoplasm; perinuclear region of cytoplasm Molecular Function: kinase activity; lipid binding Biological Process: cell morphogenesis; cell proliferation; ceramide metabolic process; endoplasmic reticulum organization and biogenesis; heart morphogenesis; in utero embryonic development; lipid homeostasis; lipid transport; muscle contraction; signal transduction; transport
Research Articles on COL4A3BP	**1.** CERT protein deficiency compromises mitochondrial function and leads to senescence in primary cells.
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