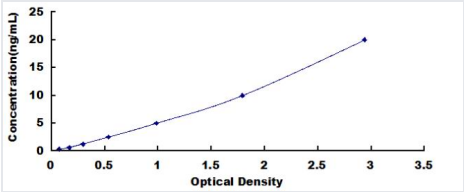
Cysteinyl Leukotriene Receptor 2 (CYSLTR2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cysteinyl Leukotriene Receptor 2 (CYSLTR2), ELISA Kit
Full Product Name	Human Cysteinyl Leukotriene Receptor 2 (CYSLTR2) ELISA Kit
Product Gene Name	CYSLTR2 elisa kit
Product Synonym Names	CYSLT2; GPCR; CYSLT2R; HG57; HPN321; HGPCR21; G-protein coupled receptor GPCR21; G-protein coupled receptor HG57
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.108ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	39,635 Da
OMIM	605666
3D Structure	ModBase 3D Structure for Q9NS75
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYSLTR2 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYSLTR2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYSLTR2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CYSLTR2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CYSLTR2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CYSLTR2 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 CYSLTR2 purchase	MBS458759 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cysteinyl Leukotriene Receptor 2 (CYSLTR2) 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 CYSLTR2. The ELISA analytical biochemical technique of the MBS458759 kit is based on CYSLTR2 antibody-CYSLTR2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYSLTR2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYSLTR2. 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 Testing Data/Standard Curve (for reference only) of CYSLTR2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYSLTR2. It may not necessarily be applicable to this product.

NCBI GI #	818213437
NCBI GeneID	57105
NCBI Accession #	NP_001295394.1
UniProt Primary Accession #	Q9NS75
UniProt Secondary Accession #	Q9HCQ2
UniProt Related Accession #	Q9NS75
GenBank Nucleotide #	NM_001308465.2
NCBI Official Full Name	cysteinyl leukotriene receptor 2
NCBI Official Synonym Full Names	cysteinyl leukotriene receptor 2
NCBI Official Symbol	CYSLTR2
NCBI Official Synonym Symbols	HG57; CYSLT2; GPCR21; HPN321; CYSLT2R; KPG_011; hGPCR21; PSEC0146
UniProt Protein Name	Cysteinyl leukotriene receptor 2
UniProt Synonym Protein Names	G-protein coupled receptor GPCR21; hGPCR21; G-protein coupled receptor HG57; HPN321
Protein Family	Cysteinyl leukotriene receptor
UniProt Gene Name	CYSLTR2
UniProt Synonym Gene Names	CYSLT2; CYSLT2R; CysLTR2; hGPCR21
NCBI Protein Information	cysteinyl leukotriene receptor 2
NCBI Summary for CYSLTR2	The cysteinyl leukotrienes LTC4, LTD4, and LTE4 are important mediators of human bronchial asthma. Pharmacologic studies have determined that cysteinyl leukotrienes activate at least 2 receptors, the protein encoded by this gene and CYSLTR1. This encoded receptor is a member of the superfamily of G protein-coupled receptors. It seems to play a major role in endocrine and cardiovascular systems. [provided by RefSeq, Jul 2008]
UniProt Comments for CYSLTR2	Receptor for cysteinyl leukotrienes. The response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. Stimulation by BAY u9773, a partial agonist, induces specific contractions of pulmonary veins and might also have an indirect role in the relaxation of the pulmonary vascular endothelium. The rank order of affinities for the leukotrienes is LTC4 = LTD4 >> LTE4.
Research Articles on CYSLTR2	**1.** our study identifies CYSLTR2 L129Q alterations as a previously unrecognized activating mutation in blue nevi, occuring in a mutually exclusive fashion with known GNAQ and GNA11 mutations.
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