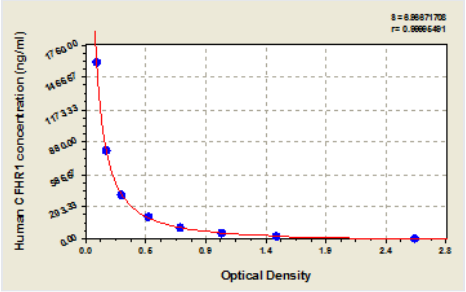
Complement Factor H-Related 1 (CFHR1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	complement factor H-related 1 (CFHR1), ELISA Kit
Full Product Name	Human Complement factor H-related protein 1, CFHR1 ELISA Kit
Product Gene Name	CFHR1 elisa kit
Product Synonym Names	Human Complement factor H-related protein 1 (CFHR1) ELISA kit; CFHL; CFHL1; CFHL1P; CFHR1P; FHR1; H36-1; H36-2; HFL1; HFL2; MGC104329; H factor (complement) -like 1; H factor (complement) -like 2; complement factor H-related 1 pseudogene; complement factor H-related 1
Species Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Serum, plasma, tissue homogenates
Detection Range	25 ng/ml-1600 ng/ml
Sensitivity	< 12.5 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human CFHR1. No significant cross-reactivity or interference between human CFHR1 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	37,651 Da
OMIM	134371
3D Structure	ModBase 3D Structure for Q03591
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CFHR1 elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been precoated with CFHR1. Standards or samples are added to the appropriate microtiter plate wells with Horseradish Peroxidase (HRP) conjugated antibody preparation specific for CFHR1. The competitive inhibition reaction is launched between with pre-coated CFHR1 and CFHR1 in samples. A substrate solution is added to the wells and the color develops in opposite to the amount of CFHR1 in the sample. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CFHR1 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 CFHR1 purchase	MBS916002 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the complement factor H-related 1 (CFHR1) 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 CFHR1. The ELISA analytical biochemical technique of the MBS916002 kit is based on CFHR1 antibody-CFHR1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CFHR1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CFHR1. 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 CFHR1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CFHR1. It may not necessarily be applicable to this product.

NCBI GI #	118442839
NCBI GeneID	3078
NCBI Accession #	NP_002104.2
UniProt Primary Accession #	Q03591
UniProt Secondary Accession #	Q3B774; Q9UJ17; A8K465
UniProt Related Accession #	Q03591
GenBank Nucleotide #	NM_002113.2
NCBI Official Full Name	complement factor H-related protein 1
NCBI Official Synonym Full Names	complement factor H-related 1
NCBI Official Symbol	CFHR1
NCBI Official Synonym Symbols	CFHL; FHR1; HFL1; HFL2; CFHL1; H36-1; H36-2; CFHL1P; CFHR1P
UniProt Protein Name	Complement factor H-related protein 1
UniProt Synonym Protein Names	H factor-like protein 1; H-factor-like 1; H36
Protein Family	Complement factor H-related protein
UniProt Gene Name	CFHR1
UniProt Synonym Gene Names	CFHL; CFHL1; CFHL1P; CFHR1P; FHR1; HFL1; HFL2; FHR-1; H-factor-like 1
UniProt Entry Name	FHR1_HUMAN
NCBI Protein Information	complement factor H-related protein 1; H36; FHR-1; H-factor-like 1; h factor-like protein 1; H factor (complement)-like 1; H factor (complement)-like 2; complement factor H-related 1 pseudogene
NCBI Summary for CFHR1	This gene encodes a secreted protein belonging to the complement factor H protein family. It binds to Pseudomonas aeruginosa elongation factor Tuf together with plasminogen, which is proteolytically activated. It is proposed that Tuf acts as a virulence factor by acquiring host proteins to the pathogen surface, controlling complement, and facilitating tissue invasion. Mutations in this gene are associated with an increased risk of atypical hemolytic-uremic syndrome. [provided by RefSeq, Oct 2009]

UniProt Comments for CFHR1	CFHR1: Might be involved in complement regulation. Can associate with lipoproteins and may play a role in lipid metabolism. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q32 Cellular Component: extracellular space Biological Process: complement activation Disease: Macular Degeneration, Age-related, 1; Hemolytic Uremic Syndrome, Atypical, Susceptibility To, 1
Research Articles on CFHR1	**1.** Factor H and the alternative spliced product FHL-1 are expressed in RPE cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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