# FCRL4 siRNA – Fc Receptor-Like Protein 4 (Human)

## PRODUCT OVERVIEW

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| **Product Name** | FCRL4, siRNA |
| **Full Product Name** | FCRL4 siRNA (Human) |
| **Product Gene Name** | FCRL4 sirna |
| **Product Synonym Names** | FCRH4; IFGP2; IRTA1; Fc receptor-like protein 4; FcR-like protein 4; FcRL4; Fc receptor homolog 4; FcRH4; IFGP family protein 2; hIFGP2; Immune receptor translocation-associated protein 1; CD antigen CD307d |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | FCRL4 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 56,636 Da |
| **OMIM** | 605876 |
| **3D Structure** | ModBase 3D Structure for Q96PJ5 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human FCRL4 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for FCRL4 sirna** | RNA Interference (RNAi) |
| **Related Product Information for FCRL4 sirna** | MBS828888 is an siRNA targeting FCRL4. Also known as FCRL4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit FCRL4 expression using RNA interference |
| **Other Notes** | Small volumes of FCRL4 sirna 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FCRL4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 14550416 |
| **NCBI GeneID** | 83417 |
| **NCBI Accession #** | NP_112572.1 |
| **UniProt Primary Accession #** | Q96PJ5 |
| **UniProt Secondary Accession #** | Q96PJ3; Q96RE0 |
| **UniProt Related Accession #** | Q96PJ5 |
| **GenBank Nucleotide #** | NM_031282.2 |
| **NCBI Official Full Name** | Fc receptor-like protein 4 |
| **NCBI Official Synonym Full Names** | Fc receptor-like 4 |
| **NCBI Official Symbol** | FCRL4 |
| **NCBI Official Synonym Symbols** | FCRH4; IGFP2; IRTA1; CD307d |
| **UniProt Protein Name** | Fc receptor-like protein 4 |
| **UniProt Synonym Protein Names** | Fc receptor homolog 4; FcRH4; IFGP family protein 2; hIFGP2; Immune receptor translocation-associated protein 1; CD_antigen: CD307d |
| **Protein Family** | Fc receptor-like protein |
| **UniProt Gene Name** | FCRL4 |
| **UniProt Synonym Gene Names** | FCRH4; IFGP2; IRTA1; FcR-like protein 4; FcRL4; FcRH4; hIFGP2 |
| **UniProt Entry Name** | FCRL4_HUMAN |
| **NCBI Protein Information** | Fc receptor-like protein 4 |
| **NCBI Summary for FCRL4** | This gene encodes a member of the immunoglobulin receptor superfamily and is one of several Fc receptor-like glycoproteins clustered on the long arm of chromosome 1. The encoded protein has four extracellular C2-type immunoglobulin domains, a transmembrane domain and a cytoplasmic domain that contains three immune-receptor tyrosine-based inhibitory motifs. This protein may play a role in the function of memory B-cells in the epithelia. Aberrations in the chromosomal region encoding this gene are associated with non-Hodgkin lymphoma and multiple myeloma. [provided by RefSeq, Apr 2009] |
| **UniProt Comments for FCRL4** | FCRL4: May function as an inhibitor of the B-cell receptor signaling. May function in the B-cell-mediated immune response. A chromosomal aberration involving FCRL4 is found in non-Hodgkin lymphoma (NHG). Translocation t(1;1)(p36.3; q21.1-2). A chromosomal aberration involving FCRL4 is found in multiple myeloma (MM). Translocation t(1;14)(q21;q32) that forms a FCRL4-IGHA1 fusion protein. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 1q21<br><br>Cellular Component: integral to membrane; plasma membrane<br><br>Molecular Function: protein binding<br><br>Biological Process: immune system process |
| **Research Articles on FCRL4** | **1.** we provide evidence for involvement of HCK and FGR in FCRL4-mediated immunoregulation and for the functional importance of posttranslational modifications of the FCRL4 molecule. |
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