FCGR2B siRNA – Low Affinity Immunoglobulin Gamma Fc Region Receptor II-B Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	FCGR2B, siRNA
Full Product Name	FCGR2B siRNA (Human)
Product Gene Name	FCGR2B sirna
Product Synonym Names	CD32; FCG2; IGFR2; Low affinity immunoglobulin gamma Fc region receptor II-b; IgG Fc receptor II-b; CDw32; Fc-gamma RII-b; Fc-gamma-RIIb; FcRII-b; CD antigen CD32
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FCGR2B 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	33,450 Da
OMIM	152700
3D Structure	ModBase 3D Structure for P31994
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 FCGR2B 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 FCGR2B sirna	RNA Interference (RNAi)
Related Product Information for FCGR2B sirna	MBS8200919 is an siRNA targeting FCGR2B. Also known as FCGR2B siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit FCGR2B expression using RNA interference
Other Notes	Small volumes of FCGR2B 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 FCGR2B. It may not necessarily be applicable to this product.

NCBI GI #	50511932
NCBI GeneID	2213
NCBI Accession #	NP_001002273.1
UniProt Primary Accession #	P31994
UniProt Secondary Accession #	O95649; Q53X85; Q5VXA9; Q8NIA1; A6H8N3
UniProt Related Accession #	P31994
GenBank Nucleotide #	NM_001002273.2
NCBI Official Full Name	low affinity immunoglobulin gamma Fc region receptor II-b isoform 2
NCBI Official Synonym Full Names	Fc fragment of IgG, low affinity IIb, receptor (CD32)
NCBI Official Symbol	FCGR2B
NCBI Official Synonym Symbols	CD32; FCG2; CD32B; FCGR2; IGFR2
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor II-b
UniProt Synonym Protein Names	CDw32; Fc-gamma RII-b; Fc-gamma-RIIb; FcRII-b; CD_antigen: CD32
Protein Family	Low affinity immunoglobulin gamma Fc region receptor
UniProt Gene Name	FCGR2B
UniProt Synonym Gene Names	CD32; FCG2; IGFR2; IgG Fc receptor II-b; Fc-gamma-RIIb; FcRII-b
UniProt Entry Name	FCG2B_HUMAN
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor II-b
NCBI Summary for FCGR2B	The protein encoded by this gene is a low affinity receptor for the Fc region of immunoglobulin gamma complexes. The encoded protein is involved in the phagocytosis of immune complexes and in the regulation of antibody production by B-cells. Variations in this gene may increase susceptibilty to systemic lupus erythematosus (SLE). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]
UniProt Comments for FCGR2B	FCGR2B: a transmembrane receptor for the Fc region of complexed or aggregated immunoglobulin gamma (IgG). Involved in a variety of effector and regulatory functions such as phagocytosis of immune complexes and modulation of antibody production by B-cells. Binding to this receptor results in down modulation of previous state of cell activation triggered via antigen receptors on B cells, T cells or via another Fc receptor. Three splice-variant isoforms have been observed. Protein type: Oncoprotein; Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 1q23 Cellular Component: plasma membrane; integral to membrane Molecular Function: protein binding; IgG binding Biological Process: regulation of immune response; viral reproduction; immune response; signal transduction Disease: Systemic Lupus Erythematosus; Malaria, Susceptibility To
Research Articles on FCGR2B	**1.** FCGR2B inhibitory gene may be predictive of adjuvant trastuzumab benefit in HER2+ breast cancer patients.

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