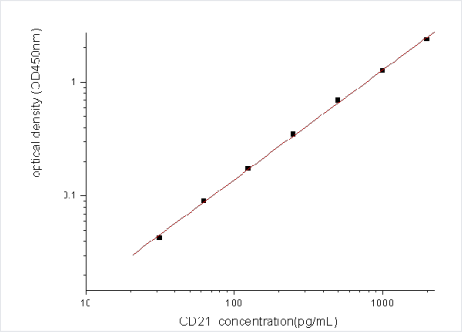
CD21 (CR2) ELISA Pair

PRODUCT OVERVIEW

Product Name	CD21 (CR2), ELISA Pair
Full Product Name	CD21 Matched ELISA Antibody Pair Set, Human
Product Gene Name	CR2 elisa pair
Product Synonym Names	Human CD21 ELISA Pair Set; complement component (3d/Epstein Barr virus) receptor 2; C3DR Matched ELISA Antibody Pair Set, Human; CD21 Matched ELISA Antibody Pair Set, Human; CR Matched ELISA Antibody Pair Set, Human; CVID7 Matched ELISA Antibody Pair Set, Human; SLEB9 Matched ELISA Antibody Pair Set, Human
Assay Type	Solid Phase Sandwich ELISA
Detection Range	31.25-2000pg/mL
Sensitivity	31.25pg/ml
Specificity	Quantitative determination of Human CD21
Preparation and Storage	Capture Antibody: Aliquot and store at -20 degree C to -80 degree C for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Detection Antibody: Protect it from prolonged exposure to light. Aliquot and store at -20 degree C to -80 degree C and for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Standard: Store lyophilized standard at -20 degree C to -80 degree C for up to 6 months from date of receipt. Aliquot and store the reconstituted Standard at -80 degree C for up to 1 month. Avoid repeated freeze-thaw cycles.
Materials Provided	1. Capture Antibody 1.0 mg/mL of rabbit anti-CD21 monoclonal antibody. Dilute to a working concentration of 2ug/mL in CBS before coating. 2. Detection Antibody 0.25 mg/mL rabbit anti-CD21 monoclonal antibody conjugated to horseradish-peroxidase (HRP). Dilute to working concentration of 0.25ug/mL in detection antibody dilution buffer before use. 3. Standard Each vial contains 70 ng of recombinant CD21. Reconstitute with 1 mL detection antibody dilution buffer. After reconstitution, store at -20 degree C to -80 degree C in a manual defrost freezer. A seven-point standard curve using 2-fold serial dilutions in sample dilution buffer, and a high standard of 2ng/mL is recommended.
Product Categories/Family for CR2 elisa pair	Serine Proteases and Regulators; Complement Activation Pathways
Related Product Information for CR2 elisa pair	The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD21, also known as Complement component (3d/Epstein Barr virus) receptor 2 and CR2, is a member of the CD system and is a protein involved in complement system. CD21 is present on all mature B-cells and some T-cells and follicular dendritic cells. CD21 on mature B-cells form a complex called the B cell receptor complex with two other membrane proteins, CD19 and CD81. CD21 has a function in the complement system through serving as the cellular receptor specific for ligands such as C3 and C4 which can be attached to foreign macromolecules in order to remove or uptake them. This results in B-cells having enhanced response to the antigen. This CD21 Matched ELISA Antibody Pair Set, Human is a solid phase sandwich ELISA for quantitative determination of Human CD21. It contains Human CD21 capture antibody, Human CD21 detector antibody (HRP) and a highly purified HEK293-expressed recombinant Human CD21 protein.

Product References and Citations for CR2 elisa pair	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.Joseph M, et al. (1989) Structure and Function of the Complement Receptors, CR1 (CD35) and CR2 (CD21). Advanced in immunology. 46: 183-219.Aubry JP, et al. (1992) CD21 is a ligand for CD23 and regulates IgE production. Nature 358: 505-7.
Other Notes	Small volumes of CR2 elisa pair 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 CR2 purchase	MBS8118564 is an ELISA pair targeting CR2. Also known as CD21 Matched ELISA Antibody Pair Set, Human.



Testing Data of CR2 elisa pair

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CR2. It may not necessarily be applicable to this product.

Protein Family	Complement receptor
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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