ARG82601
Human CD19 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82601 Human CD19 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD19 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	This kit could assay both natural and recombinant Human CD19. No significant cross-reactivity or interference was observed in the following samples: Human: IFN gamma, IL1 beta, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL17A, IL18, IL21, IL22, IL23, MCP1, TGF beta 1, TNF alpha and VEGF. Mouse: GM-CSF, IFN gamma, IL1 beta, IL2, IL4, IL6, IL10, IL17A and TNF alpha. Rat: IFN gamma, IL1 beta, IL4, IL6, IL10 and TNF alpha.
Target Name	CD19
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.47 ng/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	0.94 - 60 ng/ml
Sample Volume	50 µl
Precision	Intra-Assay CV: 5.6% Inter-Assay CV: 3.3%
Alternate Names	Differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; B4; CD antigen CD19; CVID3

Application Instructions

Assay Time	~ 3.5 hours

Properties

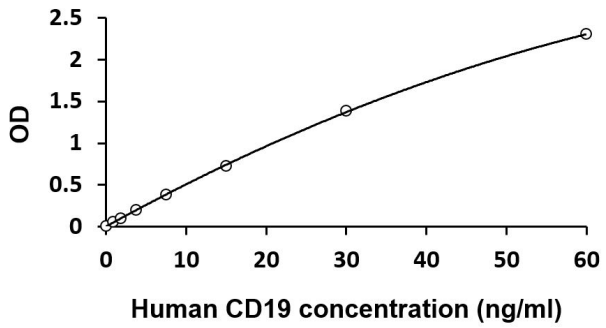
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CD19

Gene Full Name	CD19 molecule
Background	CD19: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008]
Function	CD19 functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:2463100, PubMed:1373518, PubMed:16672701). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:9382888, PubMed:9317126, PubMed:12387743, PubMed:16672701). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells. Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:2463100, PubMed:1373518). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:9317126, PubMed:12387743, PubMed:16672701). [UniProt]
Highlight	Related products: CD19 antibodies; CD19 ELISA Kits; CD19 Duos / Panels; Related news: Tumor-Infiltrating Lymphocytes (TILs) New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B-cell activation. Phosphorylated on tyrosine residues by LYN. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG82601 Human CD19 ELISA Kit standard curve image

ARG82601 Human CD19 ELISA Kit results of a typical standard run with optical density reading at 450 nm.