ARG81723
Mouse CD127 / IL7R ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81723-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81723-002	Standard	2 X 20 ng/vial	4°C
ARG81723-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81723-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81723-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81723-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81723-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81723-008	25X Wash buffer	20 ml	4°C
ARG81723-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81723-010	STOP solution	10 ml (Ready to use)	4°C
ARG81723-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81723 Mouse CD127 / IL7R ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD127 / IL7R in serum and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD127 / IL7R
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.6%; Inter-Assay CV: 6.7%
Alternate Names	ILRA; CD127; IL-7R subunit alpha; IL-7R-alpha; IL7RA; CD antigen CD127; Interleukin-7 receptor subunit alpha; CDW127; CDw127; IL-7 receptor subunit alpha; IL-7RA

Application Instructions

Assay Time	~ 5 hours

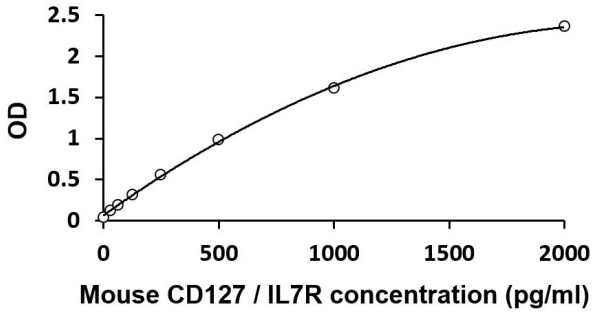
Properties

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	IL7R
Gene Full Name	interleukin 7 receptor
Background	The protein encoded by this gene is a receptor for interleukine 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukine 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in the V(D)J recombination during lymphocyte development. This protein is also found to control the accessibility of the TCR gamma locus by STAT5 and histone acetylation. Knockout studies in mice suggested that blocking apoptosis is an essential function of this protein during differentiation and activation of T lymphocytes. The functional defects in this protein may be associated with the pathogenesis of the severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2014]
Function	Receptor for interleukin-7. Also acts as a receptor for thymic stromal lymphopoietin (TSLP). [UniProt]
Highlight	Related products: CD127 antibodies; CD127 ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N-glycosylated IL-7Ralpha binds IL7 300-fold more tightly than the unglycosylated form. [UniProt]

Images



ARG81723 Mouse CD127 / IL7R ELISA Kit standard curve image

ARG81723 Mouse CD127 / IL7R ELISA Kit results of a typical standard run with optical density reading at 450 nm.