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ARG80175
Human IgG4 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80175-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80175-002	Standard (Lyophilized)	3 X 0.7 µg/vial	4°C
ARG80175-003	Standard diluent buffer	40 ml	4°C
ARG80175-004	Antibody conjugate concentrate	400 µl	4°C
ARG80175-005	Antibody diluent buffer	16 ml	4°C
ARG80175-008	20X Wash buffer	50 ml	4°C
ARG80175-009	TMB substrate	12ml	4°C (Protect from light)
ARG80175-010	STOP solution	12ml	4°C
ARG80175-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80175 Human IgG4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IgG4 in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human IgG1, IgG2, IgG3
Target Name	IgG4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	3.9 ng/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	7.8 - 500 ng/ml
Sample Volume	100 µl
Precision	CV: less than10%
Alternate Names	Immunoglobulin G4

Application Instructions

Assay Time	4 hours

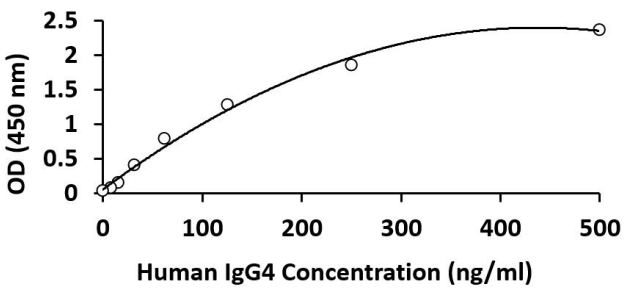
Properties

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

Background	IgG4 is present in very low levels in children younger than 10 years of age, so IgG4 deficiencies are not usually diagnosed before age 10. IgG4 may be undetectable in the serum of many “normal” adult individuals, and therefore low IgG4 alone is insufficient evidence of an antibody deficiency disorder requiring Ig replacement. IgG4–related systemic disease (IgG4-RSD), also known as hyper-IgG4 disease and IgG4-related disease is a disease in which inflammatory cells cause fibrosis, the deposition of connective tissue, in one or more organs. The disease is so named because the antibody subtype IgG4 can be detected on tissue samples and often at elevated levels in the bloodstream. The association with IgG4 is a relatively recent finding, and the condition has been described under numerous other names in the past. Diseases such asautoimmune pancreatitis, retroperitoneal fibrosis, mediastinal fibrosis, Riedel's thyroiditis, Mikulicz's syndrome, Kuttner's tumor and inflammatory pseudotumor are now regarded as forms of IgG4-RSD.
Highlight	Related products: IgG4 ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Immune System kit

Images



ARG80175 Human IgG4 ELISA Kit standard curve image

ARG80175 Human IgG4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.