

Human Immunoglobulin D (IgD) ELISA Kit | IgD elisa kit

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CATALOG #
AAA161475

REACTIVITY
Human

PRODUCT SYNONYMS

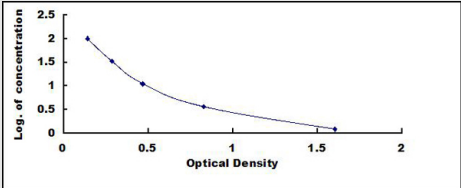
Immunoglobulin D (IgD); Human Immunoglobulin D (IgD) ELISA Kit; IgD ELISA kit (Human); IGHD; Constant Region Of Heavy Chain Of Immunoglobulin Delta; IgD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Immunoglobulin D (IgD). No significant cross-reactivity or interference between Immunoglobulin D (IgD) and analogues was observed. Reactive with Human IgD/Immunoglobulin D
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	CE kit
Detection Range	1.23-100ug/mL
Sensitivity	0.49ug/mL
Sample Size	50uL
Assay Time	2h
Function	Detects small molecule
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Immunoglobulin D (IgD) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Immunoglobulin D (IgD) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 50ul standard or sample to each well. And then add 50ul prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 degree C 3. Aspirate and wash 3 times 4. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 5. Aspirate and wash 5 times 6. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 7. Add 50ul Stop Solution. Read at 450 nm immediately.
Test Principle	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Immunoglobulin D (IgD) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Immunoglobulin D (IgD) and unlabeled Immunoglobulin D (IgD)(Standards or samples) with the pre-coated antibody specific to Immunoglobulin D (IgD). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Immunoglobulin D (IgD) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Immunoglobulin D (IgD) in the sample.

Research Area	Infection immunity, Immune molecule
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for IgD ELISA (Competitive)

NCBI AND UNIPROT INFORMATION

NCBI GI #	193806360
NCBI GeneID	3495
UniProt Accession #	P01880; Q6P4I8; Q8WU38
Molecular Weight	185,000
NCBI Official Full Name	Ig delta chain C region
NCBI Official Synonym Full Names	immunoglobulin heavy constant delta
NCBI Official Symbol	IGHD
UniProt Protein Name	Ig delta chain C region
UniProt Gene Name	IGHD
UniProt Entry Name	IGHD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/immunoglobulin-d-igd/161475>