

Human GNPDA2 (Glucosamine-6-phosphate isomerase 2) ELISA Kit | GNPDA2 elisa kit

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CATALOG #
AAA248970

REACTIVITY
Human

PRODUCT SYNONYMS

GNPDA2 (Glucosamine-6-phosphate isomerase 2); Human GNPDA2 (Glucosamine-6-phosphate isomerase 2) ELISA Kit; GNPDA2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection ofGM-CSF. No significant cross-reactivity or interference betweenGM-CSF and analogues was observed.
Sequence Length	242
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GMCSF were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GMCSF were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a GNPDA2 ELISA KIT are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	31.25	62.5	125	250	500	1000	2000
Y	OD450	0.031	0.076	0.1	0.157	0.296	0.59	1.26	1.928

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GNPDA2 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-GM-CSF antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-GM-CSF antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the GM-CSF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration ofGM-CSF can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	400153675
NCBI GeneID	132789
NCBI Accession #	NP_001257809.1
NCBI GenBank Nucleotide #	NM_001270880.1
UniProt Accession #	Q8TDQ7; Q2VYF1; Q59EA7; Q8NCZ8; Q96BJ4; Q96NC6; B4DJF3
Molecular Weight	30,956 Da
NCBI Official Full Name	glucosamine-6-phosphate isomerase 2 isoform 2
NCBI Official Synonym Full Names	glucosamine-6-phosphate deaminase 2
NCBI Official Symbol	GNPDA2
NCBI Official Synonym Symbols	GNP2; SB52
NCBI Protein Information	glucosamine-6-phosphate isomerase 2
UniProt Protein Name	Glucosamine-6-phosphate isomerase 2
UniProt Gene Name	GNPDA2
UniProt Synonym Gene Names	GNP2; GNPDA 2; GlcN6P deaminase 2

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://www.aaabiotech.com/human-elisa-kits/gnpda2-glucosamine-6-phosphate-isomerase-2/248970>