

Porcine DMT1 (Divalent metal transporter 1) ELISA Kit | DMT1 elisa kit

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CATALOG #
AAA27509

REACTIVITY
Porcine

PRODUCT SYNONYMS

DMT1 (Divalent metal transporter 1); Porcine DMT1 (Divalent metal transporter 1) ELISA Kit; SLC11A2; DCT1; DMT-1; NRAMP2; Solute carrier family 11 member 2; Divalent cation transporter 1; Natural resistance-associated macrophage protein 2; DMT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Porcine
Specificity	This assay has high sensitivity and excellent specificity for detection of DMT1 . No significant cross-reactivity or interference between DMT1 and analogues was observed.
Sequence Length	547
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DMT1 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 DMT1 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 DMT1 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	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.132	0.228	0.282	0.346	0.537	0.882	1.416	2.658

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DMT1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-DMT1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- DMT1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRPStreptavidin 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 DMT1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of DMT1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27475929
NCBI GeneID	678623
Molecular Weight	60,107 Da
NCBI Official Full Name	divalent metal transporter 1
NCBI Official Synonym Full Names	solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2
NCBI Official Symbol	slc11a2
NCBI Official Synonym Symbols	DMT1; cb426; fa07b10; wu:fa07b10; zgc:136699
NCBI Protein Information	natural resistance-associated macrophage protein 2
UniProt Protein Name	Divalent metal transporter 1
UniProt Gene Name	slc11a2

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/porcine-elisa-kits/dmt1-divalent-metal-transporter-1/27509>