

Human Isthmin 1 (ISM1) ELISA Kit | ISM1 elisa kit

Human Isthmin 1 (ISM1) ELISA Kit

CATALOG #
AAA23083

REACTIVITY
Human

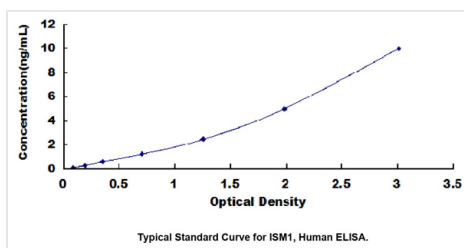
PRODUCT SYNONYMS

Isthmin 1 (ISM1); Human Isthmin 1 (ISM1) ELISA Kit; C20orf82; ISM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ISM1. No significant cross-reactivity or interference between ISM1 and analogues was observed.
Sequence Length	464
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.064ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ISM1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ISM1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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)

ADDITIONAL INFORMATION

Related Product Information for ISM1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ISM1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ISM1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ISM1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ISM1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ISM1 in human tissue homogenates, cell lysates and other biological fluids.
References	Serum isthmin-1 levels are positively and independently correlated with albuminuria in patients with type 2 diabetes mellitus; BMJ Open Diabetes Res Care; 2022 Sep;10(5):e002972.; PMID: 36126993; Chuan Wang; Department of Endocrinology, Qilu Hospital, Cheeloo College of Medicine, Shandong University, Shandong University, Jinan, Shandong, China.

NCBI AND UNIPROT INFORMATION

NCBI GI #	153791192
NCBI GeneID	140862
NCBI Accession #	NP_543016.1
NCBI GenBank Nucleotide #	NM_080826.1
UniProt Accession #	B1AKI9; Q8WVH9
Molecular Weight	52,107 Da
NCBI Official Full Name	isthmin-1
NCBI Official Synonym Full Names	isthmin 1
NCBI Official Symbol	ISM1
NCBI Official Synonym Symbols	ISM; Isthmin; C20orf82; bA149I18.1; dJ1077I2.1
NCBI Protein Information	isthmin-1
UniProt Protein Name	Isthmin-1
UniProt Gene Name	ISM1
UniProt Synonym Gene Names	C20orf82; ISM

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.