

Human Endothelial Cell Specific Molecule 1 ELISA Kit | ESM1 elisa kit

Human Endothelial Cell Specific Molecule 1 ELISA Kit

CATALOG #
AAA100072

REACTIVITY
Human

PRODUCT SYNONYMS

Endothelial Cell Specific Molecule 1; Human Endothelial Cell Specific Molecule 1 ELISA Kit; ESM1 (Endothelial Cell Specific Molecule 1)/Endocan/ESM-1/IGFBP-rp6; ESM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ESM1 . No significant cross-reactivity or interference between ESM1 and analogues was observed.
Sequence Length	184
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ESM1were 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 ESM1were 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 run of a ESM1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A/not applicable)

X	pg/ml	0	15.625	31.25	62.5	125	250	500	1000
Y	OD450	0.085	0.114	0.126	0.166	0.262	0.461	0.939	2.024

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ESM1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-ESM1antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- ESM1 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. 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 ESM1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ESM1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5901946
NCBI GeneID	11082
NCBI Accession #	NP_008967.1
NCBI GenBank Nucleotide #	NM_007036.4
Molecular Weight	14,513 Da
NCBI Official Full Name	endothelial cell-specific molecule 1 isoform a
NCBI Official Synonym Full Names	endothelial cell specific molecule 1
NCBI Official Symbol	ESM1
NCBI Official Synonym Symbols	endocan
NCBI Protein Information	endothelial cell-specific molecule 1
UniProt Protein Name	Endothelial cell-specific molecule 1
UniProt Gene Name	ESM1
UniProt Synonym Gene Names	ESM-1
UniProt Entry Name	ESM1_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/esm1-human-elisa-kits/endothelial-cell-specific-molecule-1/100072>