

Rat Endothelial cell specific molecule 1 ELISA Kit | ESM-1 elisa kit

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CATALOG #
AAA97502

REACTIVITY
Rat

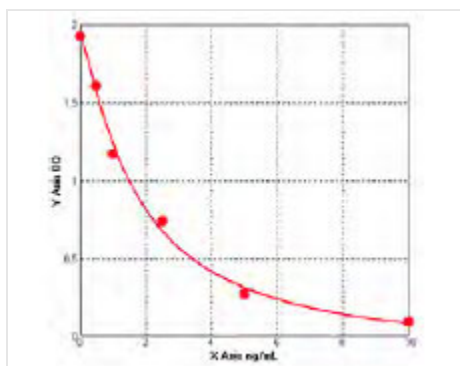
PRODUCT SYNONYMS

Endothelial cell specific molecule 1; Rat Endothelial cell specific molecule 1 ELISA Kit; ESM-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ESM-1. No significant cross-reactivity or interference between ESM-1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ESM-1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ESM-1 elisa kit	Intended Uses: This ESM-1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ESM-1. This ELISA kit for research use only! Principle of the Assay: ESM-1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ESM-1 antibody and an ESM-1-HRP conjugate. The assay sample and buffer are incubated together with ESM-1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ESM-1 concentration since ESM-1 from samples and ESM-1-HRP conjugate compete for the anti-ESM-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ESM-1 from the sample, fewer sites are left to bind ESM-1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ESM-1 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for ESM-1 elisa kit	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	208022668
NCBI GeneID	11082
NCBI Accession #	NP_001129076.1
NCBI GenBank Nucleotide #	NM_001135604.1
Molecular Weight	14,513 Da
NCBI Official Full Name	endothelial cell-specific molecule 1 isoform b
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; ESM-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/esm-1-rat-elisa-kits/endothelial-cell-specific-molecule-1/97502>