

Human ESM1/Endocan ELISA Kit | ESM1 elisa kit

Human ESM1/Endocan PicoKine ELISA Kit

CATALOG #
AAA11609

REACTIVITY
Human

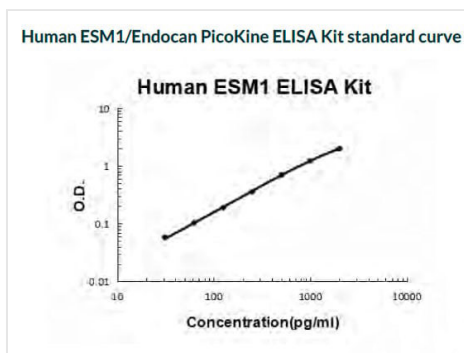
PRODUCT SYNONYMS

ESM1/Endocan; Human ESM1/Endocan PicoKine ELISA Kit; Endothelial cell-specific molecule 1; endothelial cell-specific molecule 1; Endocan; Endothelial cell specific molecule 1; ESM 1; ESM 1 secretory protein; ESM-1; Esm1; ESM1 secretory protein; ESM1_HUMAN; ESM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human ESM1
Sequence Length	184
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ESM1 elisa kit	Background: Endothelial cell-specific molecule 1, also known as Endocan, is a protein that in humans is encoded by the ESM1 gene. This gene encodes a secreted protein which is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of this gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. The transcript contains multiple polyadenylation and mRNA instability signals. ESM1 has been described as a specific biomarker of tip cells during neoangiogenesis by independent teams. Its expression has been shown to be increase in presence of pro-angiogenic growth factors such as VEGF (vascular endothelial growth factor) or FGF-2 (fibroblast growth factor 2). Principle of the Assay: The Picokine™ Human ESM1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human ESM1 with a 96-well strip plate that is pre-coated with antibody specific for ESM1. The detection antibody is a biotinylated antibody specific for ESM1. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit includes Human ESM1 protein as standards. To measure Human ESM1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human ESM1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human ESM1 in the sample.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	13431509
NCBI GeneID	11082
UniProt Accession #	Q9NQ30; Q15330; Q3V4E3; Q96ES3; B2R4G3
Molecular Weight	14,513 Da
NCBI Official Full Name	Endothelial cell-specific molecule 1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/esm1-endocan/11609>