# Mouse Endostatin ELISA Kit

Catalog No: #EK5638

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## Description

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| Product Name | Mouse Endostatin ELISA Kit |
| Specificity | Mouse |
| Crossing Reactivity | There is no detectable cross-reactivity with other relevant proteins. |
| Immunogen Type | NSO,H1591-K1774 |
| Other Names | Collagen alpha-1(XVIII) chain; Endostatin; Col18a1; |
| Accession No. | P39061 |
| Uniprot | P39061 |
| GeneID | 12822; |
| Cell Localization | Secreted, extracellular space, extracellularmatrix. |

## Application Details

sensitivity:10pg mlDetect Range:156pg ml-10 000pg mlsample_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA).capture_antibody:monoclonal antibody from ratdetection_antibody:polyclonal antibody from goatgene_name:COL18A1protein_name:Collagen alpha-1(XVIII) chaingene_full_name:Collagen alpha-1(XVIII) chaintissue_specificity: Expressed in liver kidney lung skeletalmuscle and testis..sequence_similarities:Belongs to the multiplexin collagen family. tmb_incubation:20-25minresearch_category:Nothing Found

## Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Endostatin

## Background

protein_function: Endostatin potently inhibits endothelial cellproliferation and angiogenesis. May inhibit angiogenesis bybinding to the heparan sulfate proteoglycans involved in growthfactor signaling.Endostatin is a naturally-occurring 20-kDa C-terminal fragment derived from type XVIII collagen. It is reported to serve as an anti-angiogenic agent, similar to angiostatin and thrombospondin. And It is produced by proteolytic cleavage of collagen XVIII, a member of the multiplexin family that is characterized by interruptions in the triple helix creating multiple domains, by proteases such as cathepsins. Using a genomic clone as a probe for fluorescence in situ hybridization, Endostatin was mapped the COL18A1 gene to 21q22.3. By immunoprecipitation analysis using membrane fractions of human mammary epithelial cells, It showed that endostatin specifically bound to cell surface nucleolin with high affinity. Blockage of nucleolin with neutralizing antibody or knockdown of nucleolin by RNA interference countered the antiendothelial activity of endostatin and abrogated its antiangiogenic and antitumor activity in vivo.

Note: This product is for in vitro research use only