

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse VE-Statin in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human VE-Statin is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 362907
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse VE-Statin Isoform 1 Thr21-Leu275 Accession # Q9QXT5
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse VE-Statin Isoform 1

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mouse VE-Statin (vascular endothelial cell statin; also EGFL7) is a secreted glycoprotein that belongs to an expanding family of EGF-like domain-containing proteins. It typically runs at 33-36 kDa in SDS-PAGE. Higher molecular weight monomers ranging from 40-42 kDa have also been reported, and suggested to be a consequence of O-linked glycosylation. VE-Statin is an early marker of embryonic endothelial cells, and occurs in adult endothelium. Its secretion blocks smooth muscle migration. The mature molecule is 254 amino acids (aa) in length, and contains one N-terminal EMI domain (aa 28-105), two EGF-like domains (aa 106-178), and a coiled-coil region (aa 196-220). There is at least one isoform that shows a 13 aa deletion between aa 236-248. Mature mouse VE-statin shares 76% and 80% aa sequence identity with dog and human VE-statin, respectively.