

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                                                           |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 362907                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse VE-Statin Isoform 1<br>Thr21-Leu275<br>Accession # Q9QXT5                                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## 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.

## PRODUCT SPECIFIC NOTICES

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