Mouse VE-Statin Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 362907

Catalog Number: FAB3089G

100 µg

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	*E. coli*-derived recombinant mouse VE-Statin Isoform 1 Thr21-Leu275 Accession # Q9QXT5
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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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