

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse VG5Q in direct ELISAs.                                                                                                                                                                                                                                        |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 368011                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse VG5Q<br>Met1-Glu711<br>Accession # Q7TN31                                                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 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.

**Immunocytochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Angiogenic Factor VG5Q, also known as AGGF1, is a presumably secreted protein expressed by vascular endothelial cells. Mouse VG5Q cDNA encodes a 714 aa precursor with a coiled coil domain, a forkhead (FHA) domain, and RNA-association domains (G-patch, OCRE). VG5Q binds the angiogenic TNF superfamily ligand TWEAK, and promotes endothelial cell proliferation. Human VG5Q mutations are associated with Klippel-Trenaunay syndrome, a congenital vascular morphogenesis disorder. Mouse VG5Q shares 78% aa identity with human VG5Q.

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