

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse VG5Q in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 368011
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse VG5Q Met1-Glu711 Accession # Q7TN31
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 as a 0.2 µm filtered solution in PBS.

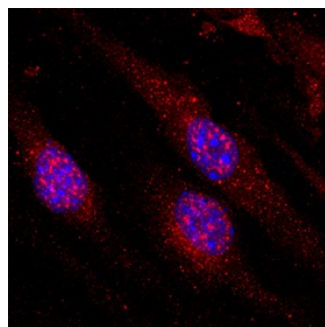
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



VG5Q in bEnd.3 Mouse Cell Line. VG5Q was detected in immersion fixed bEnd.3 mouse endothelioma cell line using Rat Anti-Mouse VG5Q Monoclonal Antibody (Catalog # MAB30481) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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

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.