Mouse VG5Q Antibody

Monoclonal Rat IgG_{2A} Clone # 368011

Catalog Number: MAB30481

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	*E. coli*-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 either lyophilized or as a 0.2 μm filtered solution in PBS.

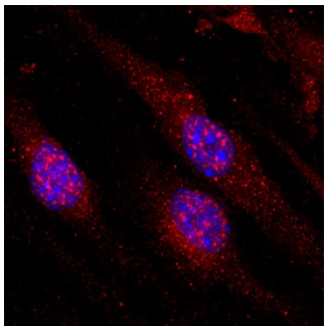
APPLICATIONS

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
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.** ● 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.

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