RD SYSTEMS a biotechne brand

Monoclonal Rat IgG_{2B} Clone # 1010639 Catalog Number: MAB9739

DESCRIPTION

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse PDGFRL in direct ELISAs.
Source	Monoclonal Rat IgG _{2B} Clone # 1010639
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell HEK293-derived mouse PDGFRL Gln22-Ser375 Accession # Q6PE55
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

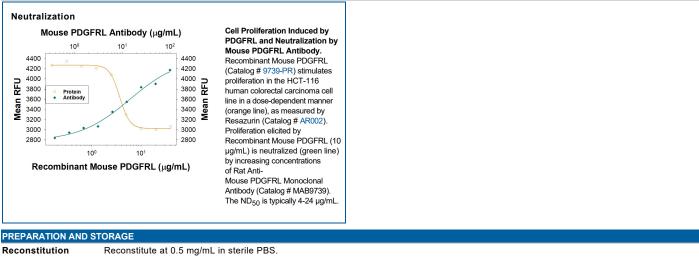
APPLICATIONS

Neutralization

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.

Measured by its ability to neutralize PDGFRL-induced proliferation in the HCT-116 human colorectal carcinoma cell line. The Neutralization Dose (ND50) is typically 4-24 µg/mL in the presence of 10 µg/mL Recombinant Mouse PDGFRL.

DATA



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 starile conditions ofter reconstitution

- 6 months, -20 to -70 $^\circ\text{C}$ under sterile conditions after reconstitution.

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Mouse PDGFRL Antibody

Monoclonal Rat IgG_{2B} Clone # 1010639 Catalog Number: MAB9739

BACKGROUND

Platelet-derived growth factor receptor-like protein (PDGFRL) is a 67 kDa glycoprotein protein consisting of two Ig-like C2-type domains. By sequence similarity, mouse PDGFRL is 90% similar to the human version and 95% similar to that of the rat. It is a secreted protein related to the class III subfamily of receptor tyrosine kinases (RTK), the platelet-derived growth factor receptors (1-5). The high frequency of loss of heterozygosity (LOH) near the gene of PDGFRL indicated in several studies that PDGFRL can be a tumor suppressor gene (TSG) in breast cancer (6-9), colorectal cancer, prostate cancer (10), non-small cell lung cancers (11) and hepatocellular carcinoma (12). A variant of PDGFRL is found to play a role in the development of Behçet disease, a complex immunoregulatory disease (13). The autoimmune role of PDGFRL is also supported by its up-regulation in a mouse model for Rheumatoid Arthritis (14). Another study also showed that PDGFRL may play a role in chondrocyte proliferation and differentiation (15).

References:

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