Mouse Angiopoietin-like Protein 6/ANGPTL6 Antibody

Monoclonal Rat IgG_{2A} Clone # 766544

Catalog Number: MAB7527

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Angiopoietin-like Protein 6/ANGPTL6 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Angiopoietin-like 6 or recombinant mouse Angiopoietin-like 2 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 766544
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse Angiopoietin-like Protein 6/ANGPTL6 Ala25-Leu457 Accession # Q8ROZ6
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.

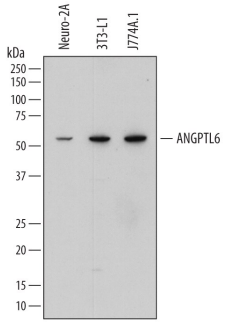
APPLICATIONS

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
Western Blot	0.5 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

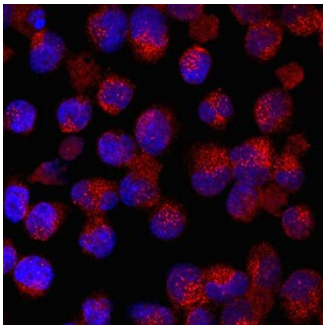
DATA

Western Blot



Detection of Mouse Angiopoietin-like Protein 6/ANGPTL6 by Western Blot. Western blot shows lysates of Neuro-2A mouse neuroblastoma cell line, 3T3-L1 mouse embryonic fibroblast adipose-like cell line, and J774A.1 mouse reticulum cell sarcoma macrophage cell line. PVDF membrane was probed with 0.5 µg/mL of Rat Anti-Mouse Angiopoietin-like Protein 6/ANGPTL6 Monoclonal Antibody (Catalog # MAB7527) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Angiopoietin-like Protein 6/ANGPTL6 at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Angiopoietin-like Protein 6/ANGPTL6 in BaF3 Mouse Cell Line. Angiopoietin-like Protein 6/ANGPTL6 was detected in immersion fixed BaF3 mouse pro-B cell line using Rat Anti-Mouse Angiopoietin-like Protein 6/ANGPTL6 Monoclonal Antibody (Catalog # MAB7527) 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). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

Angiopoietin-like 6 (ANGPTL6), also known as angiopoietin-related growth factor (AGF), is a secreted 50 kDa protein that contains a coiled-coil domain (aa 51-77, 126-164) and a fibrinogen-like domain (aa 238-456). A conserved Integrin-binding RGD motif is located within the fibrinogen-like domain. This enables ANGPTL6 to promote skin wound healing by mediating the adhesion and migration of keratinocytes, fibroblasts, and endothelial cells. ANGPTL6 also promotes the chemotaxis of vascular endothelial cells resulting in increased vascular permeability and angiogenesis. ANGPTL6 is also secreted by hepatocytes. It inhibits gluconeogenesis in these cells and promotes insulin sensitivity and energy expenditure in mice fed high fat diets. Serum levels of ANGPTL6 are elevated in metabolic syndrome, diabetes, and preeclampsia but are decreased in chronic renal failure. ANGPTL6 is additionally produced by several hematopoietic cell types including megakaryocytes, platelets, mast cells, and uterine NK cells. Mature mouse ANGPTL6 shares 75% and 95% sequence identity with human and rat ANGPTL6.