

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	<i>E. coli</i> -derived recombinant mouse Angiopoietin-like Protein 6/ANGPTL6 Ala25-Leu457 Accession # Q8ROZ6
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

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.

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