

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                  |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 766544                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse Angiopoietin-like Protein 6/ANGPTL6<br>Ala25-Leu457<br>Accession # Q8ROZ6                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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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