

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Angiopoietin-like protein 6/ANGPTL6 in direct ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 856630
Purification	Protein A or G purified from cell culture supernatant
Immunogen	E. coli-expressed recombinant Human Angiopoietin-like Protein 6/ANGPTL6 Arg21-Leu470 Accession # Q8ROZ6
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

ELISA 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.