

DESCRIPTION

Source	Mouse myeloma cell line, NS0-derived			
	Mouse ANGPTL2 (Ala260-His493) Accession # AAD55358	HP	GGGSGGGSGGGS	HHHHHH
	N-terminus		C-terminus	

N-terminal Sequence Ala260

Analysis

Predicted Molecular Mass 29 kDa

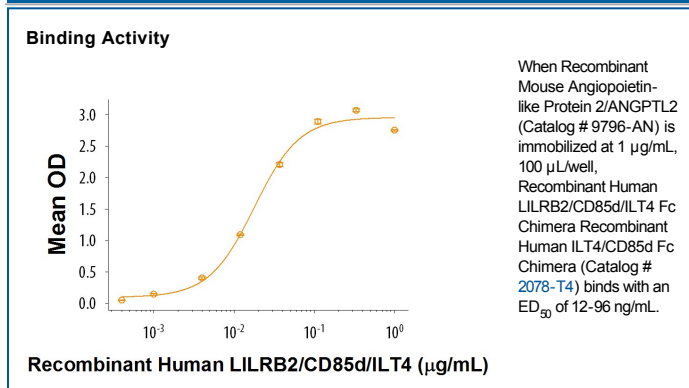
SPECIFICATIONS

SDS-PAGE	28-39 kDa, reducing conditions
Activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse Angiopoietin-like Protein 2/ANGPTL2 is immobilized at 1 µg/mL, 100 µL/well, the concentration of Recombinant Human Recombinant Human ILT4/CD85d Fc Chimera (Catalog # 2078-T4) that produces 50% of the optimal binding response is 12-96 ng/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 3 months, -20 to -70 °C under sterile conditions after reconstitution.

DATA



BACKGROUND

Angiopoietin-like Protein 2 (ANGPTL2), also known as ARP2 is a secreted 56 kDa glycoprotein that contains a N-terminal coiled coil domain and a C-terminal fibrinogen like domain (1). ANGPTL2 is one of the seven members of the Angiopoietin Like family proteins, which are structurally similar to angiopoietins (2). Within mature mouse ANGPTL2, amino acid 260-493 contains the C-terminal fibrinogen like domain, and this domain shares 99% and 100% sequence identity with human and rat homologs, respectively. ANGPTL2 is widely expressed in many tissues, and its expression is induced by chronic, but not acute hypoxia (3). Elevated level of ANGPTL2 in the serum is also correlated with inflammation and obesity (3). ANGPTL2 has both pro and anti-angiogenic functions (1, 4). It serves as tumor suppressor in ovarian cancer (5), and also promote metastasis in various cancer types, making it potential biomarker for tumor progression (6-7). ANGPTL2 also function as growth factor to enhance the survival of hematopoietic progenitors, mediated by its coiled coil domain (8). Receptor of ANGPTL2 is recently identified as LILRB2, and both the coiled coil domain and fibrinogen like domain are required for optimal binding (9).

References:

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7. Endo, M. *et al.* (2012) *Cancer Res* **72**:1784.
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