

ANGPTL4/Angiopoietin-related 4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78237
Synonyms:	ANGPTL4; ARP4; FIAF; HFARP; Angiopoietin like 4; NGPTL2; NL2; PGAR; pp1158; ANG-3; ANG4; AGP4; ANG3; ANG-3; ANG-4; Angiopoietin-3; ANGPT4; MGC138181; MGC138183
Species:	Mouse
Source:	HEK293
Accession:	Q9Z1P8 (R168-S410)
Gene ID:	57875
Molecular Weight:	35-50 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>ANGPTL4/Angiopoietin-related 4 Protein assumes a pivotal role in the intricate regulation of lipid metabolism by mediating the inactivation of lipoprotein lipase (LPL), thereby contributing to the control of triglyceride clearance from the bloodstream. Beyond its involvement in lipid metabolism, ANGPTL4 may also play a crucial part in regulating glucose homeostasis and insulin sensitivity. Moreover, it exerts inhibitory effects on endothelial cells by impeding proliferation, migration, and tubule formation, ultimately reducing vascular leakage. In vitro studies demonstrate that ANGPTL4, when expressed heterologously, hampers endothelial cell adhesion to the extracellular matrix (ECM), inhibits the reorganization of the actin cytoskeleton, and disrupts the formation of actin stress fibers and focal adhesions. Additionally, ANGPTL4's cleaved form exhibits higher activity in LPL inactivation compared to the uncleaved protein, further emphasizing its multifaceted role in lipid homeostasis and endothelial cell function. Depending on the context, ANGPTL4 may also modulate tumor-related angiogenesis, underscoring its contextual influence on diverse physiological processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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