

DESCRIPTION

Species Reactivity	Human/Primate
Specificity	Detects human ANGPTL4 in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human (rh) ANGPTL3, rhAngiotensin-1, -2, -3, and -4 is observed. In Western blots, approximately 1% cross-reactivity with rhANGPTL4 N-terminal Fragment is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Angiotensin-like 4/ANGPTL4 Leu165-Ser406 Accession # Q9BY76
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Angiotensin-like 4/ANGPTL4 (Catalog # 4487-AN)
Human/Primate Angiotensin-like Protein 4/ANGPTL4 Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 µg/mL	Human/Primate Angiotensin-like Protein 4/ANGPTL4 Antibody (Catalog # AF3485)
ELISA Detection	0.1-0.4 µg/mL	Human/Primate Angiotensin-like Protein 4/ANGPTL4 Biotinylated Antibody (Catalog # BAF3485)
Standard		Recombinant Human Angiotensin-like Protein 4/ANGPTL4 (Catalog # 4487-AN)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ANGPTL4, also known as PPARγ angiotensin-related protein (PGAR), hepatic fibrinogen/angiotensin-related protein (HFARP) and fasting-induced adipose factor (FIAP), is a secreted protein that shares structural homology with angiotensins. It contains an N-terminal coiled-coil region that mediates covalent homo-oligomerization and a C-terminal fibrinogen-like domain. ANGPTL4 undergoes proteolytic processing and releases the C-terminal domain, which circulates as a monomer. At least 2 additional splice isoforms exist. ANGPTL4 is most highly expressed in adipose tissues. Its expression is up-regulated in endothelial cells and cardiomyocytes during hypoxia. ANGPTL4 is involved in the regulation of lipid and glucose metabolism. It has also been associated with angiogenesis. The amino acid sequence of human ANGPTL4 is 81%, 76% and 81% identical to that of porcine, mouse and canine ANGPTL4, respectively.