

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Angiopoietin-like 3 in direct ELISAs and Western blots. In direct ELISAs, less than 20% cross-reactivity with recombinant mouse Angiopoietin-like 3 is observed and less than 1% cross-reactivity with recombinant human (rh) Angiopoietin-like 1 and rhAngiopoietin-like 4 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Angiopoietin-like 3 (R&D Systems, Catalog # 3829-AN) Ser17-Glu460 Accession # Q9Y5C1
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 Angiopoietin-like 3 (Catalog # 3829-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

Angiopoietin-like 3 (ANGPTL3), also known as angiopoietin-5, is a secreted, hepatic angiopoietin-like glycoprotein that is structurally related to angiopoietins. Human ANGPTL3 contains an N-terminal heparin-binding motif, a coiled-coil domain (CCD) that mediates the formation of non-covalent higher-order oligomers, and a C-terminal fibrinogen-like domain that binds integrin $\alpha_v\beta_3$. *In vivo*, ANGPTL3 is proteolytically cleaved between the CCD and the fibrinogen-like domain, generating an N-terminal fragment that retains the inhibitory activity on lipoprotein lipase and a C-terminal fragment that can induce angiogenesis. Full length and cleaved ANGPTL3 circulate in plasma. Mature human ANGPTL3 shares 76% and 83% aa sequence identity with mouse and porcine ANGPTL3, respectively.