Mouse S5a/Angiocidin Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF5540

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S5a/Angiocidin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse S5a/Angiocidin isoform A Val2-Glu254 Accession # O35226
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 as a 0.2 μm filtered solution in PBS.

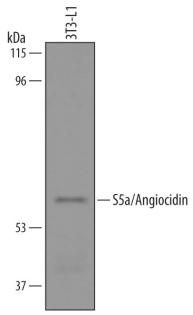
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Mouse S5a/Angiocidin by Western Blot. Western blot shows lysates of 3T3-L1 mouse embryonic fibroblast adipose-like cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse S5a/Angiocidin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5540) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for S5a/Angiocidin at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

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.** ● 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

Angiocidin (also S5a, 26S proteasome regulatory subunit S5A, Psmd4, RPN10a and Mcb1) is a 41 kDa (predicted) member of the proteosome subunit S5A family of proteins. It runs anomalously in SDS-PAGE at 55 kDa. Intracellularly, Angiocidin is a component of the 26S proteosome that degrades ubiquitinated proteins. Extracellularly, it inhibits angiogenesis by binding to collagen and β1 integrins. Mouse Angiocidin is 376 amino acids (aa) in length. It contains a vWF-A domain (aa 5-188), a β1 interacting site (aa 86-105) and two ubiquitin-interacting motifs (aa 211-230 and 282-301). There are four splice variants. Three show a GlyGluArg insertion after Glu254, with two of these showing an additional three aa substitution for aa 255-376, and a 45 aa substitution for aa 321-376, respectfully. A fourth shows a 51 aa substitution for aa 299-376. Over aa 1-254, mouse Angiocidin shares > 99% aa identity with rat and human Angiocidin.

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