

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S5a/Angiocidin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse S5a/Angiocidin isoform A Val2-Glu254 Accession # O35226
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Angiocidin (also S5a, 26S proteasome regulatory subunit S5A, Psmd4, RPN10a and Mcb1) is a 41 kDa (predicted) member of the proteasome subunit S5A family of proteins. It runs anomalously in SDS-PAGE at 55 kDa. Intracellularly, Angiocidin is a component of the 26S proteasome that degrades ubiquitinated proteins. Extracellularly, it inhibits angiogenesis by binding to collagen and β 1 integrins. Mouse Angiocidin is 376 amino acids (aa) in length. It contains a vWF-A domain (aa 5-188), a β 1 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, respectively. 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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