Lot # XXXXX

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MATERIAL DATA SHEET

S5a/Angiocidin UIM Domains Peptide Agarose, *human recombinant*
Cat. # AM-110

S5a (Rpn10) is a component of the regulatory complex (19S) of the 26S proteasome. By binding to and recognizing poly-ubiquitinated proteins, it functions as a receptor for proteins destined for proteolytic degradation. S5a has a low affinity for mono-, di- and tri-Ub but binds efficiently to tetrameric ubiquitin and has a preference for longer polymers. The protein recognizes ubiquitin conjugates via two UIM (ubiquitin-interacting motif) domains at located at residues 211-230 (I) and 282-301 (II). Although both UIMs bind to poly-ubiquitin *in vitro*, UIM II has a 10-fold higher affinity for ubiquitin than UIM I. This affinity resin can be used for the enrichment, isolation and identification of ubiquitinated proteins, proteins that contain ubiquitin-like domains and/or 26S substrates.

Product Information

Quantity:	0.25 ml
Stock:	0.25 ml S5a/Angiodicin UIM domains peptide agarose supplied in a 0.5 ml total volume of 50 mM Hepes pH 7.5, 500 mM NaCl.

Use & Storage

Use:	Equilibrate resin by washing with 5-10 ml desired start buffer. Binding and elution of material is dependent on individual experimental conditions.
Storage:	The agarose can be re-used for at least 5-10 applications if properly maintained. After use, clean resin with 5 ml 50 mM Tris pH 9.0, 1 M KCl. Remove cleaning solution by washing resin with 5 ml storage buffer. Resin should be stored at 4°C and 0.01% sodium azide can be added as a bacteriostatic agent. DO NOT FREEZE.

Literature

References:

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