

Product datasheet for PH303708

Reticulocalbin 3 (RCN3) (NM_020650) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RCN3 MS Standard C13 and N15-labeled recombinant protein (NP_065701)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203708
Predicted MW:	37.5 kDa
Protein Sequence:	>RC203708 protein sequence Red=Cloning site Green=Tags(s) MMWRPSVLLLLLLLLRHGAQGKPSPDAGPHGQGRVHQAAPLSDAPHDDAHGNFYDHEAFLGREVAKEFDQ LTPEESQARLGRIVDRMDRAGDGDGWVSLAELRAWIAHTQQRHIRDSVSAAWDTYDTRDGRVWEEELRN ATYGHYAPGEEFHDVEDAETYKKMLARDERRFRVADQDGD SMATREELTAFLHPEEFPHMRDIVIAETLE DLDRNKDGYVQVEEYIADLYSAEPGEEPAWVQTERQQFRDFRDLNKGHLGDGSEVGHWWLPPAQDQPLV EANHLLHESDTRDKGRLSKAEILGNWNMFVGSQATNYGEDLTRHHDEL TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_065701</u>
RefSeq Size:	1882
RefSeq ORF:	984
Synonyms:	RLP49
Locus ID:	57333



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UniProt ID: [Q96D15](#)

Cytogenetics: 19q13.33

Summary: Probable molecular chaperone assisting protein biosynthesis and transport in the endoplasmic reticulum (PubMed:16433634, PubMed:28939891). Required for the proper biosynthesis and transport of pulmonary surfactant-associated protein A/SP-A, pulmonary surfactant-associated protein D/SP-D and the lipid transporter ABCA3 (By similarity). By regulating both the proper expression and the degradation through the endoplasmic reticulum-associated protein degradation pathway of these proteins plays a crucial role in pulmonary surfactant homeostasis (By similarity). Has an anti-fibrotic activity by negatively regulating the secretion of type I and type III collagens (PubMed:28939891). This calcium-binding protein also transiently associates with immature PCSK6 and regulates its secretion (PubMed:16433634).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified RCN3 protein (Cat# [TP303708]). The protein was produced from HEK293T cells transfected with RCN3 cDNA clone (Cat# [RC203708]) using MegaTran 2.0 (Cat# [TT210002]).