

Product datasheet for **TP303708M**

Reticulocalbin 3 (RCN3) (NM_020650) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human reticulocalbin 3, EF-hand calcium binding domain (RCN3), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203708 protein sequence Red =Cloning site Green =Tags(s)
	MMWRPSVLLLLLLLLRHGAQGKPSPDAGPHGQGRVHQAAPLSDAPHDDAHGNFQYDHEAFLGREVAKEFDQ LTPEESQARLGRIVDRMDRAGDGDGWVSLAELRAWIAHTQQRHIRDSVSAAWDTYDTRDGRVWHEELRN ATYGHYAPGEEFHDVEDAETYKKMLARDERRFRVADQDGDSMATREELTAFLHPEEPHMRDIVIAETLE DLDRNKDGYVQVEEYIADLYSAEPGEEPAWVQTERQQFRDFRDLNKDGLDGVSEVGHWWLPPAQDQPLV EANHLLHESDTRDKDGRLSKAEILGNWNMFVGSQATNYGEDLTRHHDEL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	35.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_065701</u>
Locus ID:	57333



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UniProt ID: [Q96D15](#)
RefSeq Size: 1882
Cytogenetics: 19q13.33
RefSeq ORF: 984
Synonyms: RLP49

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]).