

Product datasheet

Recombinant Human Grancalcin protein ab103054

1 Image

Description

Product name	Recombinant Human Grancalcin protein	
Purity	> 95 % SDS-PAGE. ab103054 was purified using conventional chromatography.	
Expression system	Escherichia coli	
Accession	P28676	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>MGSSHHHHHSSGLVPRGSHMAYPGYGGGFNFSI QVPGMQMGQPVPETG PAILLDGYSGPAYSDTYSSAGDSVYTYFSAVAGQDGE VDAEELQRCLTQS GINGTYSPPFSLETGRIMAMLDLDRDHTGKMGFNFKELW AALNAWKENFMT VDQDGS GTVEHHEL RQAIGLMGYRLSPQTLTTVKRYS KNGRIFDDYVA CCVKLRALTDFFRKRDLQQGSANFIYDDFLQGTMAI</p>	
Predicted molecular weight	26 kDa including tags	
Amino acids	1 to 217	
Tags	His tag N-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab103054** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.316% Tris HCl, 20% Glycerol, 0.58% Sodium chloride

General Info

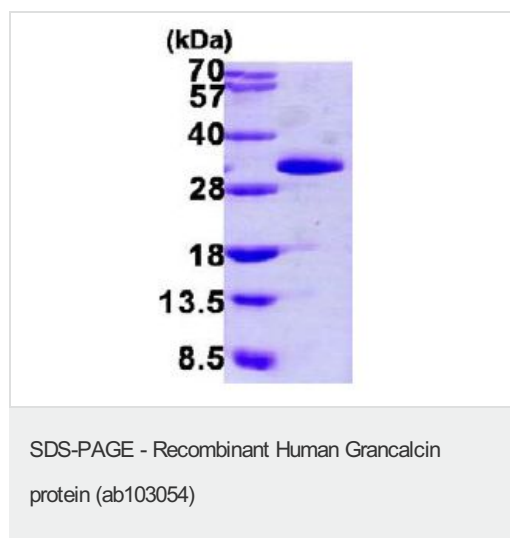
Relevance

Grancalcin is a calcium binding protein abundant in neutrophils and macrophages. It belongs to the penta EF hand subfamily of proteins which includes sorcin, calpain, and ALG2. Grancalcin localization is dependent upon calcium and magnesium. In the absence of divalent cation, grancalcin localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions, suggesting a role for grancalcin in granule membrane fusion and degranulation.

Cellular localization

50% cytoplasmic, the remainder being attached to the membranes and granules.

Images



15% SDS-PAGE analysis of 3µg ab103054.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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