

Datasheet for ABIN2714614

**alpha Actinin 4 Protein (Myc-DYKDDDDK Tag)****1** Image**1** Publication[Go to Product page](#)

## Overview

Quantity:	20 µg
Target:	alpha Actinin 4 (ACTN4)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This alpha Actinin 4 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

## Product Details

Characteristics:	<ul style="list-style-type: none"><li>• Recombinant human Alpha-actinin-4 / ACTN4 protein expressed in HEK293 cells.</li><li>• Produced with end-sequenced ORF clone</li></ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

## Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	alpha-Actinin-4,actn4 ( <a href="#">ACTN4 Products</a> )
Background:	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth

## Target Details

muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis.

Molecular Weight: 104.7 kDa

NCBI Accession: [NP\\_004915](#)

Pathways: [Proton Transport](#)

## Application Details

Application Notes: Recombinant human proteins can be used for:  
Native antigens for optimized antibody production  
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

## Handling

Concentration: 50 µg/mL

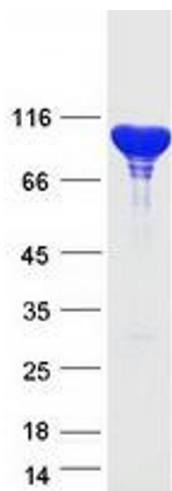
Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

## Publications

Product cited in: Pan, Zhou, Mahsut, Rohm, Berejnaia, Price, Chen, Castro-Perez, Lassman, McLaren, Conway, Jensen, Thomas, Reyes-Soffer, Ginsberg, Gutstein, Cleary, Previs, Roddy: "Static and turnover kinetic measurement of protein biomarkers involved in triglyceride metabolism including apoB48 and apoA5 by LC/MS/MS." in: **Journal of lipid research**, Vol. 55, Issue 6, pp. 1179-87, (2016) ([PubMed](#)).



Western Blotting

**Image 1.** Validation with Western Blot