

Datasheet for ABIN6940951  
**anti-alpha Actinin 4 antibody**



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1 Image

## Overview

Quantity:	100 µg
Target:	alpha Actinin 4 (ACTN4)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant full-length human ACTN4 protein
Clone:	93
Isotype:	IgG
Purification:	Purified by Protein A/G

## Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	ACTN4 ( <a href="#">ACTN4 Products</a> )
Background:	The spectrin gene family encodes a diverse group of cytoskeletal proteins that include spectrins, dystrophins and -actinins. There are four tissue-specific -actinins, namely -actinin-1, -actinin-2, -actinin-3 and -actinin-4, which are localized to muscle and non-muscle cells, including skeletal, cardiac and smooth muscle cells, as well as within the cytoskeleton. Each -actinin

## Target Details

protein contains one Actin-binding domain, two calponin-homology domains, two EF-hand domains and four spectrin repeats, through which they function as bundling proteins that can cross-link F-Actin, thus anchoring Actin to a variety of intracellular structures. Defects in the gene encoding -actinin-4 are the cause of focal segmental glomerulosclerosis 1 (FSGS1), a common renal lesion characterized by decreasing kidney function and, ultimately, renal failure.

Molecular Weight: 105kDa

Gene ID: 81

UniProt: [O43707](#)

Pathways: [Proton Transport](#)

## Application Details

Application Notes: Positive Control: Human colon or kidney tissue (IHC).  
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

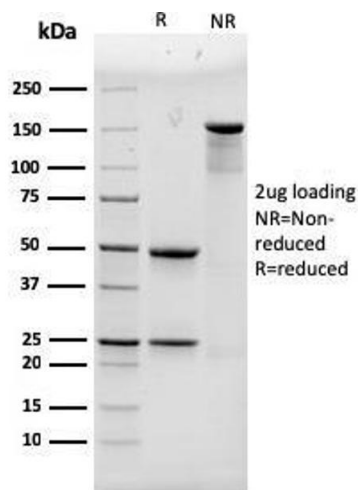
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified ACTN4 Mouse Monoclonal Antibody (93). Confirmation of Purity and Integrity of Antibody.