

Datasheet for ABIN4886421  
**anti-alpha Actinin 4 antibody (AA 561-661)**

## 4 Images

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	alpha Actinin 4 (ACTN4)
Binding Specificity:	AA 561-661
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Alpha-actinin-4(ACTN4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Alpha Actinin 4 recombinant protein (Position: E561-V661). Human Alpha Actinin 4 shares 99% and 98% amino acid (aa) sequence identity with mouse and rat Alpha Actinin 4, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Alpha-actinin-4(ACTN4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: actinin alpha 4</p> <p>Protein Name: Alpha-actinin-4</p>

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: alpha Actinin 4 (ACTN4)

Alternative Name: ACTN4 ([ACTN4 Products](#))

Background: Alpha-actinin-4 is a protein that in humans is encoded by the ACTN4 gene. 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 muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This ACTN4 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.

Synonyms: actinin4 | actinin-4 | actinin 4 | ACTN4 | ACTN 4 | FSGS1 | FSGS 1 | O43707

Gene ID: 81

UniProt: [O43707](#)

Pathways: [Proton Transport](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

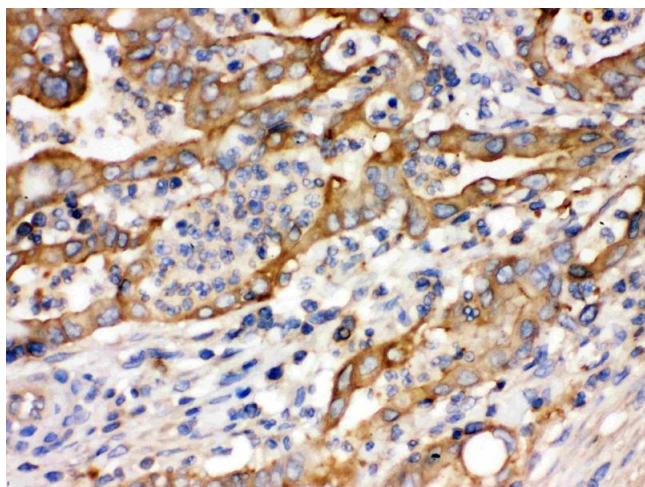
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

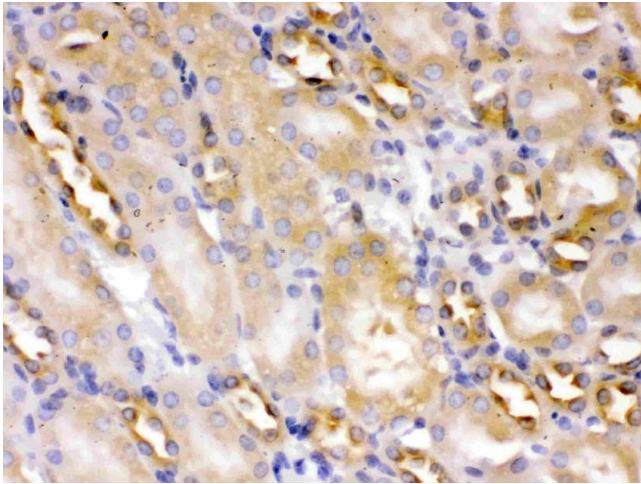
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



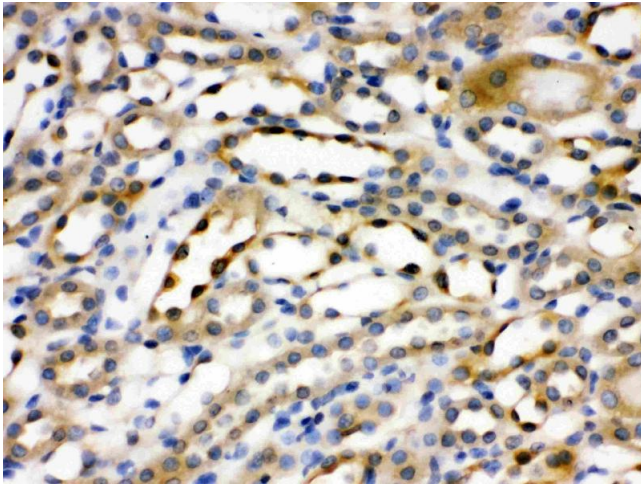
### Immunohistochemistry

**Image 1.** Alpha Actinin 4 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- Alpha Actinin 4 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



#### Immunohistochemistry

**Image 2.** Alpha Actinin 4 was detected in paraffin-embedded sections of mouse kidney tissues using rabbit anti- Alpha Actinin 4 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



#### Immunohistochemistry

**Image 3.** Alpha Actinin 4 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- Alpha Actinin 4 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN4886421.