

Product Name: KO-Validated ACTN1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00024**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 103.1kDa

Antigen Information

Gene Name	ACTN1
Alternative Names	ACTN1; Actinin Alpha 1; F-Actin Cross-Linking Protein; Non-Muscle Alpha-Actinin-1; Alpha-Actinin-1; Epididymis Secretory Sperm Binding Protein; Alpha-Actinin Cytoskeletal Isoform; Actinin 1 Smooth Muscle; BDPLT15
Gene ID	87.0
SwissProt ID	P12814
Immunogen	A synthesized peptide derived from human ACTN1

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 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, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Research Area

Signal Transduction, Stem Cells, Developmental Biology

Image Data

