
Summary

Production Name	Actinin- α 3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ACTN3
Alternative Names	ACTN3; Alpha-actinin-3; Alpha-actinin skeletal muscle isoform 3; F-actin cross-linking protein
Gene ID	89.0
SwissProt ID	Q08043.The antiserum was produced against synthesized peptide derived from human ACTN3. AA range:1-50

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	103kD

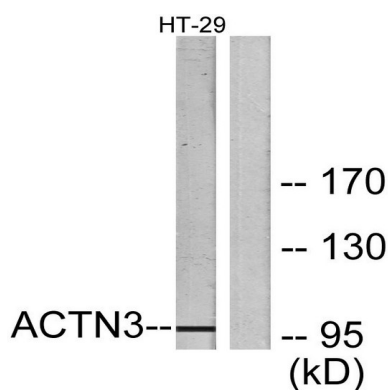
Background

This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and functions as a structural component of sarcomeric Z line. This protein is involved in crosslinking actin containing thin filaments. An allelic polymorphism in this gene results in both coding and non-coding variants; the reference genome represents the coding allele. The non-functional allele of this gene is associated with elite athlete status. [provided by RefSeq, Feb 2014],function:F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.,polymorphism:About 18% of the world population lack a functional ACTN3 due to a stop codon polymorphism at position 577. The absence of a functional ACTN3 expression is not correlated with a disease state.,sequence caution:According to the human genome assembly there is a stop codon in position 577 which is only found in 18% of the world population.,similarity:Belongs to the alpha-actinin family.,similarity:Contains 1 actin-binding domain.,similarity:Contains 2 CH (calponin-homology) domains.,similarity:Contains 2 EF-hand domains.,similarity:Contains 4 spectrin repeats.,subunit:Homodimer; antiparallel. Also forms heterodimers with ACTN2. Interacts with MYOZ1.,tissue specificity:Expressed only in a subset of type 2 skeletal muscle fibers.,

Research Area

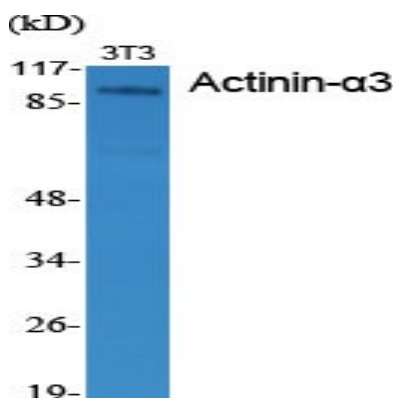
Focal adhesion;Adherens_Junction;Adherens_Junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Systemic lupus erythematosus;Arrhythmogenic right ventricular cardiomyopathy (ARVC);

Image Data

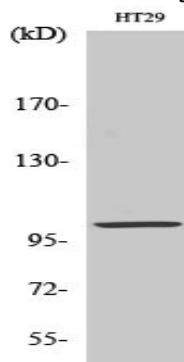


Western blot analysis of lysates from HT-29 cells, using ACTN3 Antibody. The lane on the right is blocked with the synthesized peptide.

Product Name: Actinin- α 3 Rabbit Polyclonal Antibody
Catalog #: APRab06549



Western Blot analysis of various cells using Actinin- α 3 Polyclonal Antibody



Western Blot analysis of HT29 cells using Actinin- α 3 Polyclonal Antibody

Note

For research use only.