Best Tools for immunology Research

Actinin-α3 Polyclonal Antibody

Catalog No :	YT0103
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	Actinin-α3
Fields :	>>Arrhythmogenic right ventricular cardiomyopathy
Gene Name :	ACTN3
Protein Name :	Alpha-actinin-3
Human Gene Id :	89
Human Swiss Prot No :	Q08043
Mouse Gene Id :	11474
Mouse Swiss Prot No :	O88990
Immunogen :	The antiserum was produced against synthesized peptide derived from human ACTN3. AA range:1-50
Specificity :	Actinin-α3 Polyclonal Antibody detects endogenous levels of Actinin-α3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 103kD

Cell Pathway : Focal adhesion;Adherens_Junction;Adherens_Junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Systemic lupus erythematosus;Arrhythmogenic right ventricular cardiomyopathy (A

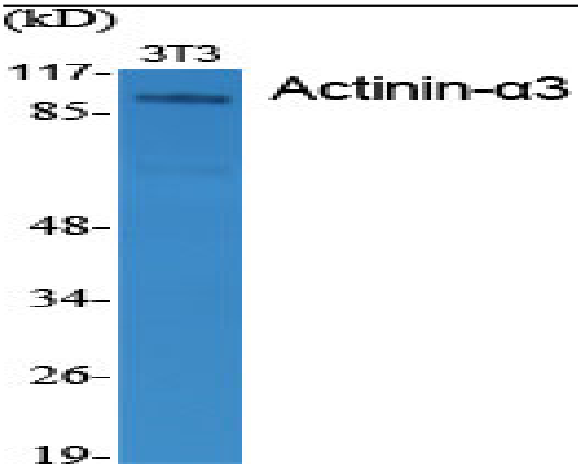
Background : This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and functions as a structural component of sarcomeric Z line. This protein is involved in crosslinking actin containing thin filaments. An allelic polymorphism 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 : 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.,

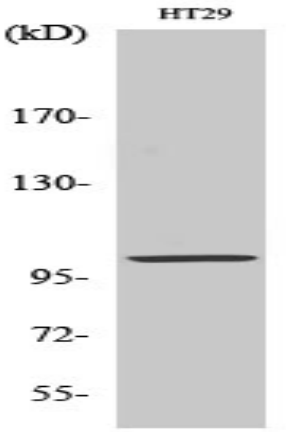
Subcellular Location : intracellular,cytosol,actin filament,brush border,focal adhesion,Z disc,pseudopodium,extracellular exosome,

Expression : Expressed only in a subset of type 2 skeletal muscle fibers.

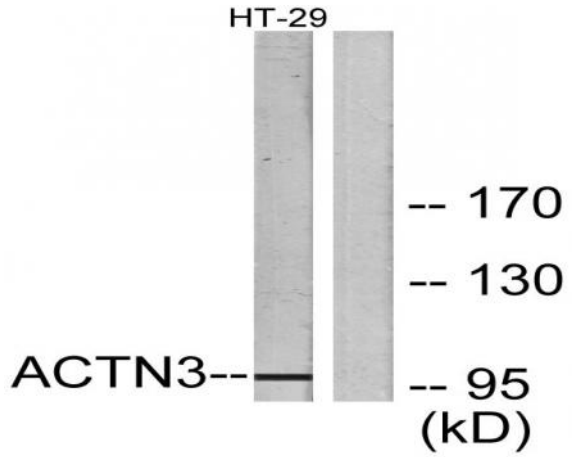
Products Images



Western Blot analysis of various cells using Actinin-α3 Polyclonal Antibody



Western Blot analysis of HT29 cells using Actinin-α3 Polyclonal Antibody



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