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Actinin-α3 Polyclonal Antibody

Catalog No	YP-Ab-16925
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	ACTN3
Protein Name	Alpha-actinin-3
Immunogen	The antiserum was produced against synthesized peptide derived from human ACTN3. AA range:1-50
Specificity	Actinin- α 3 Polyclonal Antibody detects endogenous levels of Actinin- α 3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ACTN3; Alpha-actinin-3; Alpha-actinin skeletal muscle isoform 3; F-actin cross-linking protein
Observed Band	103kD
Cell Pathway	intracellular,cytosol,actin filament,brush border,focal adhesion,Z disc,pseudopodium,extracellular exosome,
Tissue Specificity	Expressed only in a subset of type 2 skeletal muscle fibers.
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.,



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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],
Avoid repeated freezing and thawing!
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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