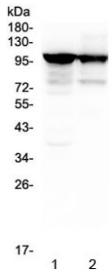
ACTN3 Antibody / Alpha Actinin 3 [clone 9B5] (RQ4625)

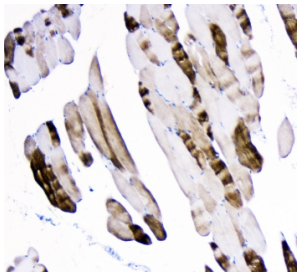
Catalog No.	Formulation	Size
RQ4625	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	9B5
Purity	Protein G affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q08043
Localization	Cytoplasmic, extracellular
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml



Western blot tesing of 1) rat skeletal muscle and 2) mouse skeletal muscle lysate with ACTN3 antibody at 0.5ug/ml. Predicted molecular weight ~103 kDa.



IHC staining of FFPE human skeletal muscle with ACTN3 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

Description

Alpha-actinin-3, also known as alpha-actinin skeletal muscle isoform 3 or F-actin cross-linking protein, is a protein that in humans is encoded by the ACTN3 gene. 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.

Application Notes

Optimal dilution of the ACTN3 antibody should be determined by the researcher.

Immunogen

Amino acids EADRERGAIMGIQGEIQKICQTYGLRPCSTNPYITLSPQDINTK were used as the immunogen for the ACTN3 antibody.

Storage

After reconstitution, the ACTN3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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