

Datasheet for ABIN6719273
anti-ACTN3 antibody (C-Term)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	ACTN3
Binding Specificity:	AA 574-617, C-Term
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ACTN3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-ACTN3 Antibody Picoband® (monoclonal, 9B5)
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human ACTN3, different from the related mouse sequence by five amino acids.
Sequence:	EADRERGAIM GIQGEIQKIC QTYGLRPCST NPYITLSPQD INT
Clone:	9B5
Isotype:	IgG1
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ACTN3 Antibody Picoband® (monoclonal, 9B5) (ABIN6719273). Tested in IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with

Product Details

minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: ACTN3

Alternative Name: ACTN3 ([ACTN3 Products](#))

Background: Synonyms: Alpha-actinin-3, Alpha-actinin skeletal muscle isoform 3, F-actin cross-linking protein, ACTN3

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

Background: 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.

Molecular Weight: 103 kDa

Gene ID: 89

UniProt: [Q08043](#)

Pathways: [Cell-Cell Junction Organization](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL

1. Papadimitriou ID, Papadopoulos C, Kouvatsi A, Triantaphyllidis C (April 2008). "The ACTN3 gene in elite Greek track and field athletes". Int J Sports Med 29 (4): 352-5. 2. Yang N, MacArthur DG, Gulbin JP, Hahn AG, Beggs AH, Easteal S, North K (September 2003). "ACTN3 genotype is associated with human elite athletic performance". Am. J. Hum. Genet. 73 (3): 627-31.

Comment: Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin

Application Details

sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.