Datasheet for ABIN7354740

anti-ACTN3 antibody (C-Term) (DyLight 488)

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Overview

Quantity:	100 µg
Target:	ACTN3
Binding Specificity:	AA 574-617, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACTN3 antibody is conjugated to DyLight 488
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human ACTN3 DyLight® 488 conjugated Antibody
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
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Human ACTN3 DyLight® 488 conjugated Antibody -Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.

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:	39 kDa
Gene ID:	89
UniProt:	Q08043
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells1. 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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	Lot specific
Buffer:	Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na2HPO4, 0.02 % Sodium azide.

Handling

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:	-20 °C
Storage Comment:	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.