

Datasheet for ABIN7354742

## **anti-ACTN3 antibody (C-Term) (DyLight 550)**



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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 550 |
| Application:         | Flow Cytometry (FACS)                            |

### Product Details

|                             |                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Anti-Human ACTN3 DyLight® 550 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® 550 conjugated Antibody -Dyl550. Tested in Flow Cytometry applications. This antibody reacts with Human.               |
| Purification:               | Immunogen affinity purified.                                                                                                                     |

## Target Details

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| Target:           | ACTN3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alternative Name: | ACTN3 ( <a href="#">ACTN3 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Background:       | <p>Synonyms: Alpha-actinin-3, Alpha-actinin skeletal muscle isoform 3, F-actin cross-linking protein, ACTN3</p> <p>Tissue Specificity: Expressed only in a subset of type 2 skeletal muscle fibers.</p> <p>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.</p> |
| Molecular Weight: | 39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene ID:          | 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| UniProt:          | <a href="#">Q08043</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pathways:         | <a href="#">Cell-Cell Junction Organization</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Application Details

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| Application Notes: | Flow Cytometry (Fixed), 1-3 $\mu\text{g}/1 \times 10^6$ cells <sup>1</sup> . 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, Eastel S, North K (September 2003). "ACTN3 genotype is associated with human elite athletic performance". Am. J. Hum. Genet. 73 (3): 627-31. |
| Comment:           | Other applications have not been tested. Optimal dilutions should be determined by end users.                                                                                                                                                                                                                                                                                                                                                             |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Handling

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Format:        | Liquid                                                                                                      |
| Concentration: | Lot specific                                                                                                |
| Buffer:        | Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na <sub>2</sub> HPO <sub>4</sub> , 0.02 % Sodium azide. |

## Handling

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|--------------------|------------------------------------------------------------------------------------------------------------------------|
| 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.                   |