

## Anti-Actin/ACTA1 Antibody Picoband® (monoclonal, 3H5) PE Conjugated

Catalog Number: M02014-5-PE

### About ACTA1

Actin, a highly conserved protein, is a major component of both the cytoskeletal and contractile structures in the cell types. It varies in amount, being related to the type of differentiation and to the functional state of cells and tissues. The actins exhibit over 90% sequence homology, but each isoform has a unique NH<sub>2</sub>-terminal sequence. The isoforms are comprised of three alpha-actin, one beta-actin, two gamma-actin. Because the amino acid sequence of the C-terminal is the same for almost all actins, this antibody has been raised using a synthetic peptide corresponding to the C-terminal 11 residues.

### Overview

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Actin/ACTA1 Antibody Picoband® (monoclonal, 3H5) PE Conjugated                                                                                                 |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                   |
| Application          | Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Monoclonal 3H5                                                                                                                                                      |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .                                                        |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                                                                |
| Host                 | Mouse                                                                                                                                                               |
| Uniprot ID           | P68133                                                                                                                                                              |

### Technical Details

|                     |                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthetic peptide corresponding to a sequence at the C-terminus of human Actin, identical to the related mouse and rat sequences. |
| Cross Reactivity    | No cross-reactivity with other proteins.                                                                                            |
| Isotype             | Mouse IgG1                                                                                                                          |
| Form                | Liquid                                                                                                                              |
| Concentration       | 0.5 mg/mL                                                                                                                           |
| Purification        | Immunogen affinity purified.                                                                                                        |
| Conjugate           | PE<br>Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm                                                                  |
| Suggested Dilutions | Optimal dilutions should be determined by end users.                                                                                |

## 9 Publications Citing This Product

1. PubMed ID: 10.2147/CMAR.S302084, Grape Seed Proanthocyanidins (GSPs) Inhibit the Development of Cutaneous Squamous Cell Carcinoma by Regulating the hsa\_circ\_0070934/miR-136-5p/PRAF2 Axis
2. PubMed ID: 10.1245/s10434-009-0395-7, MDR1/P-gp and VEGF Synergistically Enhance the Invasion of Hep-2 Cells with Multidrug Resistance Induced by Taxol
3. PubMed ID: , Telomerase catalyzed fluorescent probes for sensitive protein profiling based on one-dimensional microfluidic beads array

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