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# α -Actin-1 (ACTA1) (AB5272) Rabbit mAb

**M1439**

## Key Features

**Host Species**
• Rabbit

**Reactivity**
• Human, Mouse, Rat

**Applications**
• WB, IF/ICC, ELISA

**MW**
• 42 kDa (calculated)
• 42 kDa (observed)

**Isotype**
• IgG

## Recommended Dilution Ratios

| Application | Dilution |
|---|---|
| WB, IF/ICC, ELISA | WB, 1:1000-1:6000 \| IF/ICC, 1:200-1:800 \| ELISA, Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Storage

| | |
|---|---|
| **Storage Conditions** | Store at-20℃. Avoid freeze / thaw cycles. |
| **Storage buffer** | The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.02% sodium azide. |

## Basic Information

| | |
|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | AB5272 |
| **Immunogen** | A synthetic peptide corresponding to a sequence within amino acids 1 - 100 of human α - Actin - 1 (ACTA1). |
| **Specificity** | This antibody detects endogenous levels of α -Actin-1 (ACTA1) protein. |
| **Purification** | Affinity purification Protein A |
| **Concentration** | Product concentration may vary by batch. Please refer to the product COA for details. |

## Target Information

| | |
|---|---|
| **Gene name** | ACTA1 |
| **Protein Name** | α -Actin-1 (ACTA1) |

**Database Link**

| Organism | Swiss Prot. | Gene ID |
|---|---|---|
| Human | P68133 | 58 |

**Background**

**The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause a variety of myopathies, including nemaline myopathy, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects with manifestations such as hypotonia.**

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