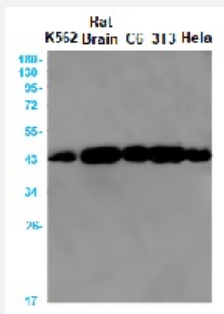


RecomAb™

# ACTA1 recombinant monoclonal antibody, clone R03-5D1

Catalog # RAB01631      Size 100 uL

## Applications



## Western Blot

Western blot analysis of Actin in K562, rat Brain, C6, 3T3, HeLa lysates using human Actin recombinant monoclonal antibody, clone R03-5D1 (Cat # RAB01631).

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human Actin.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide corresponding to human Actin
<b>Theoretical MW (kDa)</b>	Calculated MW: 42 kD
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Affinity purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

**Storage Instruction**

Store at 4°C for short term. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of Actin in K562, rat Brain, C6, 3T3, Hela lysates using human Actin recombinant monoclonal antibody, clone R03-5D1 (Cat # RAB01631).

- Immunoprecipitation

## Gene Info — ACTA1

**Entrez GeneID**[58](#)**Protein Accession#**[P68133](#)**Gene Name**

ACTA1

**Gene Alias**

ACTA, ASMA, CFTD, CFTD1, CFTDM, MPFD, NEM1, NEM2, NEM3

**Gene Description**

actin, alpha 1, skeletal muscle

**Omim ID**[102610](#) [161800](#) [255310](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 nemaline myopathy type 3, 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. [provided by RefSeq]

**Other Designations**

OTTHUMP00000036123|alpha skeletal muscle actin

## Disease

- [Acute Disease](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Myocardial Infarction](#)
- [Parkinson disease](#)