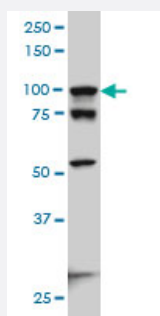


ACTN4 monoclonal antibody (M01A), clone 4D10

Catalog # H00000081-M01A

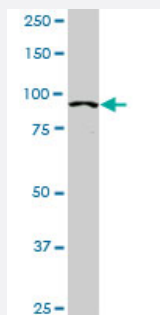
Size 200 uL

Applications



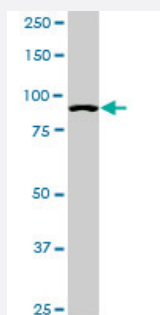
Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10 Western Blot analysis of ACTN4 expression in Hela S3 NE (Cat # L013V3).



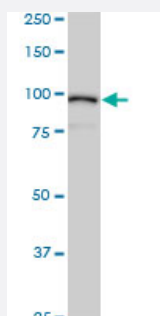
Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in Raw 264.7 (Cat # L024V1).



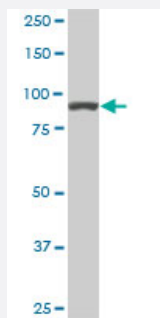
Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in PC-12 (Cat # L012V1).



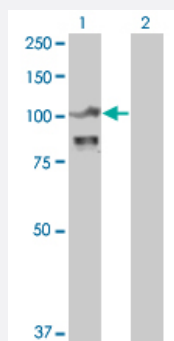
Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in MCF-7 (Cat # L046V1).



Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in NIH/3T3 (Cat # L018V1).

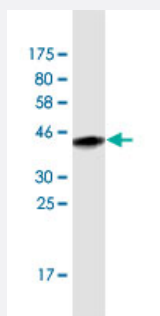


Western Blot (Transfected lysate)

Western Blot analysis of ACTN4 expression in transfected 293T cell line by ACTN4 monoclonal antibody (M01A), clone 4D10.

Lane 1: ACTN4 transfected lysate(104.9 KDa).

Lane 2: Non-transfected lysate.



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ACTN4.
Immunogen	ACTN4 (NP_004915, 592 a.a. ~ 701 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KEAQRIAESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQ ANVVGWPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYK
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (99); Rat (98)
Isotype	IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (37.84 KDa) .

Storage Buffer

In ascites fluid

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10 Western Blot analysis of ACTN4 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in Raw 264.7 (Cat # L024V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in PC-12 (Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in MCF-7 (Cat # L046V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ACTN4 monoclonal antibody (M01A), clone 4D10. Western Blot analysis of ACTN4 expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ACTN4 expression in transfected 293T cell line by ACTN4 monoclonal antibody (M01A), clone 4D10.

Lane 1: ACTN4 transfected lysate(104.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — ACTN4

Entrez GeneID

[81](#)

GeneBank Accession#

[NM_004924](#)

Protein Accession#

[NP_004915](#)

Gene Name

ACTN4

Gene Alias

ACTININ-4, DKFZp686K23158, FSGS, FSGS1

Gene Description

actinin, alpha 4

Omim ID

[603278](#) [604638](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and is thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq]

Other Designations

actinin alpha4 isoform

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)

- [Regulation of actin cytoskeleton](#)
- [Systemic lupus erythematosus](#)
- [Tight junction](#)

Disease

- [Alport syndrome](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulosclerosis](#)
- [Kidney Diseases](#)
- [Proteinuria](#)