

Beta-Actin Loading Control Antibody (9Q394)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9Q394
Purification:	Protein A

Applications

1. Anti-beta-Actin rabbit monoclonal antibody at 1:20000 dilution.

- Lane A: Jurkat Whole Cell Lysate.
- Lane B: HeLa Whole Cell Lysate.
- Lane C: HepG2 Whole Cell Lysate.
- Lane D: A549 Whole Cell Lysate.
- Lane E: Mouse brain tissue Lysate.
- Lane F: Mouse skeletal muscle tissue Lysate.
- Lane G: Mouse kidney tissue Lysate.
- Lane H: Rat brain tissue Lysate.
- Lane I: Rat lung tissue Lysate.
- Lane J: Rat kidney tissue lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.

-Developed using the ECL technique.

-Performed under reducing conditions.

-Predicted band size:42 kDa.

-Observed band size:42 kDa.

2. Actin was immunoprecipitated using:

-Lane A:0.5 mg HeLa Whole Cell Lysate.

-Lane B:0.5 mg Jurkat Whole Cell Lysate.

-Lane C:0.5 mg MCF7 Whole Cell Lysate.

-Lane D:0.5 mg A431 Whole Cell Lysate.

-4 µL anti-Actin rabbit monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.

-Primary antibody:

-Anti-Actin rabbit monoclonal antibody, at 1:100 dilution.

-Secondary antibody:

-Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution.

-Developed using the ECL technique.

-Performed under reducing conditions.

-Predicted band size: 43 kDa.

-Observed band size:44 kDa

Verified Activity:

A DRUG SCREENING EXPERT

Application: IP, WB
Recommended WB: 1:10000-1:100000; IP: 1-5 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: N-terminus of the Human beta Actin / ACTB
Antigen Species: Human

Research Background

ACTB (Actin Beta) is a Protein Coding gene. Diseases associated with ACTB include Dystonia, Juvenile-Onset and Baraitser-Winter Syndrome 1. Among its related pathways are Salivary secretion and Development Slit-Robo signaling. Gene Ontology (GO) annotations related to this gene include identical protein binding and RNA polymerase II proximal promoter sequence-specific DNA binding. An important paralog of this gene is ACTG1. TUBB, HPRT and ACTB were the most stably expressed genes for all analysis groups across meningioma and non-pathological meningeal tissue combined. ACTB, a significant upregulated gene in abdominal aortic aneurysm samples, could be regulated by CLIC4, which was significantly enriched in cell motions. Dystonia-deafness syndrome is a well-known clinical entity, with sensorineural deafness typically manifesting earlier than dystonia. ACTB p.Arg183Trp heterozygosity has been reported in six patients to cause combined infant-onset deafness and dystonia manifesting in adolescence or young adulthood.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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