

Human/Mouse/Rat alpha Actinin 1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 910301

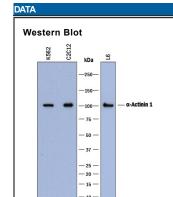
Catalog Number: MAB8279

DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human α-Actinin 1 in ELISA, and human, mouse and rat α-Actinin 1 in Western Blot.	
Source	Monoclonal Mouse IgG _{2B} Clone # 910301	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human α-Actinin 1 Asn272-Thr500 Accession # P12814	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

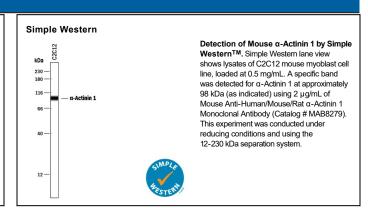
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below
Simple Western	2 μg/mL	See Below



Detection of Human, Mouse, and Rat α -Actinin 1 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, C2C12 mouse myoblast cell line, and L6 rat myoblast cell line. PVDF membrane was probed with 0.2 μ g/mL of Mouse Anti-Human/Mouse/Rat α -Actinin 1 Monoclonal Antibody (Catalog # MAB8279) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for α -Actinin 1 at approximately 100-105 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

α-Actinin 1 (ACTN1) is a member of the spectrin superfamily with a predicted molecular weight of approximately 100 kDa. It is 892 amino acids (aa) in length and shares 99% aa identity with mouse and rat ACTN1. Multiple splice forms exist, resulting in 4 distinct isoforms with different tissue expression patterns. ACTN1 binds to F-actin as well as other cytoskeletal and signaling proteins and plays an important role in both cell motility and muscle contraction.

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