Human/Mouse/Rat alpha Actinin 1 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 910301

Catalog Number: FAB8279G

100 µg

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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