

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat β -Actin in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 937215
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Peptide containing a sequence at the N-terminus of human β -Actin Accession # P60709
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.
Immunocytochemistry	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

Actin makes up the most abundant protein in many eukaryotic cell types. It polymerizes to form microfilaments that have an array of functions, including regulating contractility, motility, cytokinesis, phagocytosis, adhesion, cell morphology, and providing structural support. At least six types of Actin, falling into three categories, exist in higher eukaryotes. The three types, separated based on isoelectric point, include α (α -Skeletal, α -Cardiac, α -Smooth Muscle), β (β -Non-muscle) and γ (γ -Smooth Muscle, γ -non-muscle) isoforms. Non-muscle β - and γ -actin are also known as cytoplasmic actin.

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