

Anti-Beta-Actin Antibody (5N615)

Product Details

Ig Type:	mIgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5N615
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in:U251 whole cell lysate (20µg), Hela whole cell lysate (20µg), HepG2 whole cell lysate (20µg), 293T whole cell lysate (20µg), A549 whole cell lysate (20µg), MCF7 whole cell lysate (20µg)-All lanes: ACTB antibody at 1:1000-Secondary: Goat polyclonal to mouse IgG at 1/40000 dilution-Predicted band size:42 kDa-Observed band size:42 kDa-Exposure time:20s <p>2. Overlay Peak curve showing Hela cells stained with TMAH-00020 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Antimouse IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was mouse IgG (1ug/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.</p>
Application:	ELISA, WB, FCM
Recommended	WB:1:500-1:2000; FCM:1:50-1:200.

Properties

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

Antigen Details

Immunogen:	Recombinant Protein: Human ACTB Protein
Antigen Species:	Human
Gene ID:	60
Uniprot ID:	P60709
Synonyms:	Actin Cytoplasmic 1;β-Actin;ACTB;β-Actin Protein;Beta-Actin
Biology Area:	Isotype/Loading Controls, Tags & Cell Markers, Signal transduction

Research Background

Actin is a highly conserved protein that polymerizes to produce filaments that form cross-linked networks in the cytoplasm of cells. Actin exists in both monomeric (G-actin) and polymeric (F-actin) forms, both forms playing key functions, such as cell motility and contraction. In addition to their role in the cytoplasmic cytoskeleton, G- and F-actin also localize in the nucleus, and regulate gene transcription and motility and repair of damaged DNA.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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