

Product datasheet for TA389040

ACTB Mouse Antibody [Clone ID: M008]

Product data:

Product Type: Primary Antibodies

Clone Name: M008

Applications: ICC, IP, WB Recommended Dilution: **WB**: 1:1000

ICC: 1:50

Reactivity: Human
Host: Mouse
Isotype: IgG2b

Immunogen: Clone M008 was generated from a proprietary antigen related to human β-actin in MDA-MB-

231 breast cancer cell line.

Specificity: Clone M008 detects a 42 kDa* protein corresponding to the molecular mass of β-actin on

SDS-PAGE immunoblots of human cancer cell lines, as well as human recombinant β -actin. This actin antibody preferentially detects human β -actin with only weak reactivity toward actins in rat, mouse, or rabbit. The antibody works in multiple applications including western blot, immunocytochemical labeling, ELISA, and immunoprecipitation. In addition, mass spectrometry analysis of immunoprecipitates using AM0081 in human A431 cell lysate

confirmed that this antibody detects β-actin.

Formulation: PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol

Concentration: lot specific

Purification: Protein G Purified
Conjugation: Unconjugated

Storage: Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to

presence of 50% glycerol. Stable for at least 1 year at -20°C.

Stability: After date of receipt, stable for at least 1 year at -20°C.

Predicted Protein Size: 42

Database Link: P60709



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Background:

Actin is a major cytoskeletal protein involved in diverse cellular functions including cell motility, adhesion, and morphology. Six different actin isoforms have been identified in vertebrates. There are four α isoforms: skeletal, cardiac, and two smooth muscle (enteric and aortic) actins, along with two cytoplasmic actins (β and γ). Actin exists in two principal forms, globular, monomeric (G) actin, and filamentous polymeric (F) actin. The assembly and disassembly of actin filaments, and also their organization into functional networks, is regulated by a variety of actin-binding proteins (ABPs). Phosphorylation may also be important for regulating actin assembly and interaction with ABPs. In Dictyostelium, phosphorylation of Tyr-53 occurs in response to cell stress and this phosphorylation may alter actin polymerization. In B cells, SHP-1 tyrosine dephosphorylation of actin leads to actin filament depolymerization following BCR stimulation

Note:

Protein G purified tissue culture supernatant.