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Product datasheet for TA355041

beta Actin (ACTB) Mouse Monoclonal Antibody [Clone ID: 10B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10B7
Applications:	ELISA, WB
Recommended Dilution:	b-actin antibody can be used for the detection of b-actin by Western blot at 0.5 - 2 µg/mL. Antibody validated: Western Blot in human, mouse, and rat samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Drosophila
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	b-actin antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human b-actin.
Specificity:	beta-Actin antibody is human, mouse, rat, rabbit, chicken, zebrafish and drosophila reactive.
Formulation:	beta-Actin Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	beta-Actin Antibody is Protein G purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 42 kDa; Observed: 44 kDa
Gene Name:	actin, beta
Database Link:	AAH02409 Entrez Gene 60 Human P60709

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Background: Actins are highly conserved proteins that are involved in cell motility, structure and integrity, processes that are crucial for tissue development and the development of organism. The actin cytoskeleton is one of the principal drivers of cell motility and is capable of responding to complex signaling cascades. Recent evidence suggests that it may play key roles in regulating apoptosis and aging. Beta actin is one of six different actin isoforms which have been identified. Like GAPDH, beta-Actin is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.

Synonyms: Beta-actin; PS1TP5BP1

Note: b-actin antibody can be used for the detection of b-actin by Western blot at 0.5 - 2 µg/mL.