

Product datasheet for **TA396778**

Actb Mouse Monoclonal Antibody [Clone ID: 3H2.E4.E12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3H2.E4.E12
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1 µg/mL IHC: User Optimized ELISA: 1:5000 - 1:50000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a, lambda
Clonality:	Monoclonal
Immunogen:	Anti-beta Actin (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with β-Actin peptide near the N-Terminus followed by hybridoma development.
Specificity:	Anti-beta Actin was purified from mouse ascites by Protein A chromatography followed by extensive dialysis against the buffer stated above. beta Actin antibody is specific for human and mouse β Actin protein. Expected to cross-react with a wide range of species due to sequence homology. A BLAST analysis was used to suggest that this antibody would react with beta Actin from a wide range of organisms, including most vertebrates. Cross-reactivity with other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.



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Gene Name:	actin, beta
Database Link:	Entrez Gene 11461 Mouse P60709
Background:	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cyto-skeleton and as mediators of internal cell motility. Beta actins are highly conserved proteins that are involved in cell motility, structure and integrity. Beta actins are cytoplasmic proteins. Anti-Actin is a loading control antibody and is critical for the correct interpretation of your western blot. Antibodies to loading controls are used to normalize the levels of protein detected by confirming that protein loading is uniform across the gel.
Synonyms:	mouse anti-beta Actin Antibody, Actin Antibody, Loading Control Antibody, beta actin, β actin, anti-beta actin antibody
Note:	Anti-beta Actin antibody has been tested for use in ELISA, IHC and Western Blot. Specific conditions for reactivity should be optimized by the end user.