

Universal mouse monoclonal antibody against Actin. Line mAbGEa1 (5-16 H1C8)

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Technology description

Actin exists as a ubiquitous protein involved with filament formation that make up large portions of the cytoskeleton. Actin filaments interact with myosin to assist in muscle contraction as well as aiding in cell motility and cytokinesis. In vertebrates there are three groups of actin isoforms: alpha, beta and gamma. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exists in most cell types as components of the cytoskeleton and as mediators of internal cell motility.

Reagent Description

Antigen: Actin 1

Accession ID: AEC09427

Molecular Weight: 45 kDa

Isotype: IgG1

Clone Name: mAbGEa (5-16 H1C8)

Reactivity: Human, Mouse, Rat, Bovine, Drosophila, Ovine, Plant, Xenopus laevis, Yeast, Zebrafish, Canine, Angiosperms

Immunogen: Purified Arabidopsis actin (ACT1)

Species Immunized: Mouse

Purification Method: Protein G column

Buffer: 0.1M Sodium Phosphate, pH 7.4, 0.15M NaCl, 0.05% (w/v) Sodium Azide

Tested Applications: WB, IF, Immuno-cytochemistry. IHC, ELISA. Typical dilutions range from 1:10 (most uses) to 1:1000(WB)

References

Kandasamy, M.K., Gilliland, L.U., McKinney, E.C., and Meagher, R.B. (2001). One plant actin isovariant, ACT7, is induced by auxin and required for normal callus formation. [Plant Cell 13, 1541-54](#).

Kandasamy, M.K., McKinney, E.C., and Meagher, R.B. (1999). The late pollen-specific actins in angiosperms. [Plant J 18, 681-91](#).

Kandasamy, M.K., McKinney, E.C., Roy, E., and Meagher, R.B. (2012). Plant vegetative and animal cytoplasmic actins share functional competence for spatial development with protists. [Plant Cell 24, 2041-57](#).

Application area

This universal mouse monoclonal antibody was generated against plant actin ACT1 and recognizes all plant (arabidopsis ACT1, 2, 3, 4, 7, 8, 11, 12), animal (e.g., human muscle and cytoplasmic), fungal, and protist actins. Validated for use in WB, IF, IHC, ELISA.

Institution

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