

ACT | Actin (recombinant monoclonal, clone 14H4G8)

Cat PA00995

Size 50 µg

Host

Mouse

Clonality

Monoclonal

Confirmed reactivity

Arabidopsis thaliana, Medicago sativa, Zea mays

Immunogen

ca. 100 amino acids of recombinant actin conserved more than 80 % in Arabidopsis thaliana: actin-1 P0CJ46 AT2G37620, actin-2 Q96292 AT3G18780, actin-3 P0CJ47AT3G53750, actin-4 P53494 AT5G59370, actin-5 Q8RYC2 At2g42100, actin-7 P53492 At5g09810, actin-8 Q96293 AT1G49240, actin-11 P53496, AT3G12110, actin-12 P53497 AT3G46520

Host

Mouse

Clonality

Monoclonal

Purity

Immunogen affinity purified serum in PBS pH 7.4.

Format

Lyophilized

Reconstitution

For reconstitution add 50 µl, of sterile or deionized water

Storage

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application

Immunofluorescence (IF), Western blot (WB)

Recommended dilution

1: 500 (IF), 1 : 1000 1: 5000 (WB)

Expected | apparent MW

41,6 | 45 kDa

Confirmed reactivity

Arabidopsis thaliana, Medicago sativa, Zea mays

Predicted reactivity

Agropyron cristatum, Beta vulgaris, Betula luminifera, Brassica napus, Brassica rapa subsp. pekinensis, Capsella rubella, Castanea sativa, Chorisporea bungeana, Cyanidioschyzon merolae strain 10D, Glycine max, Glycine

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soja, Halogeton glomeratus, Medicago truncatula, Malus domestica, Oryza sativa, Pisum sativum, Solanum lysopersicum, Solanum tuberosum, Phaseolus vulgaris, Picea abies, Picea sitchensis, Prunus avium, Ricinus communis, Rubus plicatus, Theobroma cacao, Triticum aestivum, Zea mays, Vicia faba

Not reactive in

Chlamydomonas reinhardtii

Additional information

This antibody is compatible with a secondary antibody for fluorescence detection: goat anti-mouse secondary antibody (IRDye 800CW, Li-cor)

Description

Actin, a highly conserved protein, is an important part of the cytoskeleton and plays an important role in cytoplasmic flow, cell shape determination, cell division, organelle movement and extension growth. It is preferentially expressed in buds and expanding tissues, flower organ primordium, developing seeds and forming inflorescences.

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