

# ACT | Actin (recombinant monoclonal, clone 14H4G8)



Cat. No. APA-GA-176

Lot. No. (See product label)

## Product Name

ACT | Actin (recombinant monoclonal, clone 14H4G8)

## Host

Mouse

## 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

## Sub class

IgG1

## Background

Actin is a highly conserved protein and an essential component of cell cytoskeleton and plays an important role in cytoplasmic streaming, cell shape determination, cell division, organelle movement and extension growth. Preferentially expressed in young and expanding tissues, floral organ primordia, developing seeds and emerging inflorescence.

## Format

Lyophilized

## Clonality

Monoclonal

## Purity

Immunogen affinity purified serum in PBS pH 7.4.

## Quantity

50 µg

## Reactivity

*Arabidopsis thaliana*, *Eschscholzia californica*, *Medicago sativa*, *Nicotiana benthamiana*, *Nicotiana tabacum*, *Salvia plebeian*, *Zea mays*

## 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*, *Chorispora bungeana*, *Cyanidioschyzon merolae* strain 10D, *Glycine max*, *Glycine soja*, *Halogeton glomeratus*, *Medicago truncatula*, *Malus domestica*, *Oryza sativa*, *Pisum sativum*, *Solanum lycopersicum*, *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*

## Reconstitution

For reconstitution add 50 µl, of sterile or deionized water

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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## Expected/apparent MW

41.6 | 45 kDa

## Tested applications

Immunofluorescence (IF), Western blot (WB)

## Recommended dilution

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

## 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.

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