

Product no **AS16 3139****ACT 1,3,4,12 | Actin 1, 3, 4, 12 (clone mAB45a (5-15 H7C5))****Product information****Immunogen** | Full length recombinant *Arabidopsis thaliana* Actin-1 (ACT1) expressed in *E.coli*, Uniprot: [P0CJ46](#)**Host** | Mouse**Clonality** | Monoclonal**Subclass/isotype** | IgG1**Purity** | IgG1 immunoglobulin purified on Protein G in 0.1M Sodium Phosphate, pH 7.4, 0.15M NaCl, 0.05% (w/v) sodium azide.**Format** | Liquid**Quantity** | 100 µg**Storage** | Store at -20 °C. 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.**Additional information** | This antibody is a total IgG fraction purified on a protein G column. It recognizes the epitope Asn79 of actins ACT1, 3, 4, 12**Application information****Recommended dilution** | 1-2 µg/ml (WB)**Expected | apparent MW** | 45 | 45 kDa**Confirmed reactivity** | *Arabidopsis thaliana***Predicted reactivity** | *Clonorchis sinensis*, *Cucurbita maxima*, *Cucumis sativus*, *Genlisea aurea*, *Glycine soja*, *Gossypium arboreum*, *Gossypium hirsutum*, *Litsea cubeba*, *Medicago truncatula*, *Narcissus tazetta* var. *chinensis*, *Phaseolus vulgaris*, *Platycodon grandiflorus*, *Paulownia tomentosa*, *Populus trichocarpa*, *Phaseolus vulgaris*, *Prunus avium*, *Ricinus communis*, *Solanum tuberosum*, *Striga asiatica*, *Theobroma cacao*  
Species of your interest not listed? [Contact us](#)**Not reactive in** | No confirmed exceptions from predicted reactivity are currently known**Additional information** | Exact working dilution needs to be determined by end user**Selected references** | [Kandasamy, M.K. et al. \(2012\)](#). Plant vegetative and animal cytoplasmic actins share functional competence for spatial development with protists. *Plant Cell*. 24, 2012 May;24(5):2041-57. doi: 10.1105/tpc.111.095281  
[Kandasamy, M.K. et al. \(2001\)](#). One plant actin isovariant, ACT7, is induced by auxin and required for normal callus formation. *Plant Cell*. Jul;13(7):1541-54  
[Kandasamy, M.K. et al. \(1999\)](#). The late pollen-specific actins in angiosperms. *Plant Journal*. Jun;18(6):681-91.