

Product datasheet

anti-Actin mouse monoclonal, 2G2, supernatant

Short overview

Cat. No.	651132
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgM
Clone	2G2
Immunogen	Profilin actin complex from calf thymus
Formulation	Contains 0.09% sodium azide
Conjugate	Unconjugated
Purification	Hybridoma cell culture supernatant
Storage	2-8°C
Intended use	Research use only
Application	ICC, IHC, WB
Reactivity	Bovine, Chicken, Human, Plant, Rabbit

Applications

Immunocytochemistry (ICC)	Assay dependent (IF only after methanol fixation)
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (protease treatment recommended)
Western Blot (WB)	Assay dependent

Background

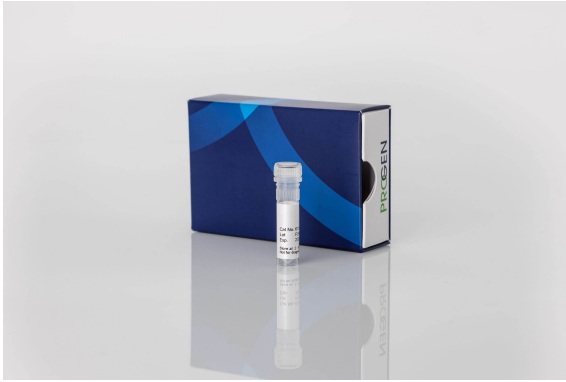
Specific for skeletal and non-muscle actin isoforms (43 kDa). Epitope location: NVPAMYVAVLDSGVTHNVPIYHAIMRLDLA.

When using antibody 2G2 in immunolocalization studies the presence of nuclear actin could be demonstrated e.g. in cultured cells after fixation with 4% paraformaldehyde. Immunostaining with cytoplasmic actin was only positive after fixation with methanol (Gonsior et al., 1999).

Reactivity on cultured cell lines: PtK2, SR-NRK, NRK-49F, L6 cells, rat fibroblasts, NIH-3T3, mouse myoblast and myotube cells.

Gonsior SM, Platz S, Buchmeier S, Scheer U, Jockusch BM, Hinssen H: Conformational difference between nuclear and cytoplasmic actin as detected by a monoclonal antibody. J Cell Sci 112, 797-809 (1999)

Product images



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References

Publication	Species	Application
Domke, L and Franke, W. The cell-cell junctions of mammalian testes..., Cell Tissue Res, 375, 451-482, (2019)	pig	ICC-IF
Cruz, J. R. & Moreno Diaz de la Espina, S. Subnuclear compartmentalization and function of actin and nuclear Myosin I in plants. Chromosoma 118, 193-207 (2009).	A. cepa	WB,ICC-IF
Jockusch, B. M., Schoenenberger, C. A., Stetefeld, J. & Aebi, U. Tracking down the different forms of nuclear actin. Trends Cell Biol. 16, 391-396 (2006).	human,rat	ICC-IF
Schoenenberger, C. A. et al. Conformation-specific antibodies reveal distinct actin structures in the nucleus and the cytoplasm. J. Struct. Biol. 152, 157-168 (2005).	human,rat	ICC-IF,dot blot
Bettinger, B. T., Gilbert, D. M. & Amberg, D. C. Actin up in the nucleus. Nat. Rev. Mol. Cell Biol. 5, 410-415 (2004).	human,mouse,bovine	WB,ICC-IF

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