

Actin Antibody

Actin, Monoclonal Antibody, Mouse

CATALOG # AAA76421	REACTIVITY Bovine, Human, Mouse, Porcine, Rat	APPLICATIONS Western Blot, Immunofluorescence
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PRODUCT SYNONYMS

Actin; Monoclonal Antibody; Mouse; anti-Actin antibody

PRODUCT SPECIFICATIONS

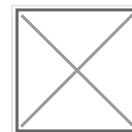
Reactivity	Bovine, Human, Mouse, Porcine, Rat
Form/Format	Affinity Purified - Liquid
Applicable Applications for anti-Actin antibody	WB (Western Blot), IF (Immunofluorescence)
Type Info	Mouse IgG
Immunogen	Actin preparation derived from bovine brain.

IMAGES



Application Data

Image: HeLa cells stained with Actin (red) and also with our chicken polyclonal antibody to Vimentin, (green). The actin antibody stains the submembranous actin rich cytoskeleton and also stress fibers, bundles of actin associated with adhesion sites. The vimentin antibody stains a quite different cytoskeletal network, the intermediate filaments. The blue stain reveals DNA in the nuclei of these cells. Protocol on Datasheet.



Application Data

Image: Western blot of crude extract of the human carcinoma HeLa cell line. Lane 15 was probed with Actin, our monoclonal antibody to all six actin isotypes, giving a strong clean band at an SDS-PAGE molecular weight of 42kDa. Lane 16 was probed with our antibody to 14-3-3eta (14-3-3 eta), which has an SDS-PAGE molecular weight of 28kDa. Lanes 17 was probed with our monoclonal antibody to vimentin. Protocol on Datasheet.

ADDITIONAL INFORMATION

Related Product Information for anti-Actin antibody	Actin is one of the most abundant and highly conserved proteins of eukaryotes. Mammalian actins are the product of six different genes with differing distribution patterns in cell types and in tissues. The molecular weight of all six proteins is 42kDa, and one or more actins is found in essentially every type of crude cellular and tissue extract. Actin is regarded as a "house keeping" protein which is generally not altered much in expression as a result of experimental manipulations. So quantitation of the actin band on the western blots is used as a standard against which the band density of other proteins can be compared. Glyceraldehyde 3 phosphate dehydrogenase (GAPDH) is another "house keeping" protein used in this way. Since our antibody binds all six isotypes very strongly on western blots, it is a very effective blotting standard. It also works in immunocytochemical experiments, binding strongly and cleanly to filopodia, membrane ruffles and stress fibers, all known to be rich in actin
Product Categories/Family for anti-Actin antibody	Antibodies ; Immune Response ; Other Immune Response Antibodies ; Actin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.