

Product datasheet for **AM20585PU-N**

pan Actin Mouse Monoclonal Antibody [Clone ID: AC-40]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AC-40
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: Use at 0.1-0.5 µg/ml with the appropriate system to detect Actin in cells and tissues. Immunohistochemistry on Frozen Sections: Use at 0.5-1.0 µg/ml to detect Actin in Formalin/Acetone fixed tissues. Immunocytochemistry. 1.0 µg/ml
Reactivity:	Chicken, Human, Mouse, Rat, Snake
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Synthetic Actin C-terminal peptide Ser-Gly-Pro-Ser-Ile-Val-His-Arg-Lys-Cys-Phe, attached to a Multiple Antigen Peptide (MAP) backbone.
Specificity:	Recognizes Actin. No cross reactivity with other proteins.
Formulation:	1.2% Sodium Acetate containing 2 mg BSA and 0.01 mg Sodium Azide as preservative. State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1.2% Sodium Acetate or neutral PBS.
Concentration:	0.1 mg/ml (after reconstitution with 1 ml PBS).
Purification:	Goat anti-Mouse IgG Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

Actin, a highly conserved protein, is a major component of both the cytoskeletal and contractile structures in the cell types. It varies in amount, being related to the type of differentiation and to the functional state of cells and tissues. The actins exhibit over 90% sequence homology, but each isoform has a unique NH₂-terminal sequence. The isoforms are comprised of three alpha-actin, one beta-actin, two gamma-actin. Because the amino acid sequence of the C-terminal is the same for almost all actins, this antibody has been raised using a synthetic peptide corresponding to the C-terminal 11 residues.