OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SM1349PS

Actin (F-Actin) Mouse Monoclonal Antibody [Clone ID: NH3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NH3
Applications:	E, FC, IF, IHC, WB
Recommended Dilution:	**ELISA:** 1/10. **Western Blotting:** 1/100-1/500. **Flow Cytometry:** 1/10 **Immunofluorescence.** **Immunohistochemistry on Frozen Sections.**
Reactivity:	Human, Mouse, Rabbit, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Human monocytes and U937 cell line. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity:	This antibody recognizes Filamentous Actin (F-Actin). The antibody binds to the N-terminal region of actin, but not to the extreme N-terminal 40 amino acids. In tissue sections the antibody stains the cytoplasm of macrophages strongly, and gives granular, localised nuclear staining of all cell types. Clone NH3 is reported to recognize Actin in the filamentous form with the epitope likely to be located between residues 120 and 226 of the molecule. Clone NH3 is also described to show reactivity with a 43 kDa polypeptide using cell lines U937 and HL-60 by SDS/PAGE and Immunoblotting.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgM fraction prepared from tissue culture supernatant. Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated

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Storage:	Store 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.
Background:	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. G-Actin (globular actin) with bound ATP can polymerise to form F-Actin (Filamentious Actin). Actin monomers spiral ariound the axis of the filament similar to a double helix. F-Actin may also undergo a process called treadmilling, in which filament length remains constant and actin monomers add at one end and dissociated at the other.
Synonyms:	Actin F type