

Datasheet: MCA358G

BATCH NUMBER 148238

Description:	MOUSE ANTI HUMAN F-ACTIN
Specificity:	ACTIN F TYPE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	NH3
Isotype:	IgM
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1 / 10
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			1 / 10
Immunoprecipitation			▪	
Western Blotting	▪			1/100 - 1/500

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Rabbit, Rat, Mouse</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgM - liquid
Preparation	Purified IgM prepared from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgM concentration 1.0 mg/ml
Immunogen	Human monocytes and U937 cell line.
External Database Links	<p>UniProt:</p> <p>P60709 Related reagents</p> <p>P63261 Related reagents</p> <p>Entrez Gene:</p> <p>60 ACTB Related reagents</p> <p>71 ACTG1 Related reagents</p>
Synonyms	ACTB, ACTG
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Human F-Actin antibody, clone NH3 recognizes human Filamentous actin (F-actin), the polymeric form of actin.. Mouse anti Human F-Actin antibody, clone NH3 binds to the N-terminal region of actin, but not to the extreme N-terminal 40 amino acids.</p> <p>In tissue sections the antibody stains the cytoplasm of macrophages strongly, and gives granular, localized nuclear staining of all cell types.</p>
References	<ol style="list-style-type: none"> 1. Dransfield, I. <i>et al.</i> (1988) Initial characterization of an anti-actin monoclonal antibody (NH3). Biochem. Soc. Trans. 16: 163-164. 2. Allen, K.M. & Haworth, S.G. (1989) Cytoskeletal features of immature pulmonary vascular smooth muscle cells: the influence of pulmonary hypertension on normal development. J Pathol. 158 (4): 311-7. 3. McCarthy, A.M. <i>et al.</i> (2006) Loss of cortical actin filaments in insulin-resistant skeletal muscle cells impairs GLUT4 vesicle trafficking and glucose transport. Am J Physiol Cell Physiol. 291: C860-8. 4. Bhonagiri, P. <i>et al.</i> (2011) Evidence coupling increased hexosamine biosynthesis pathway activity to membrane cholesterol toxicity and cortical filamentous actin derangement contributing to cellular insulin resistance. Endocrinology. 152: 3373-84. 5. Fang, S.H. <i>et al.</i> (2019) Relationship of α2-Macroglobulin with Steroid-Induced Femoral Head Necrosis: A Chinese Population-Based Association Study in Southeast China. Orthop Surg. 11 (3): 481-486. 6. Chen, X. <i>et al.</i> (2013) Molecular characterization of severin from <i>Clonorchis sinensis</i> excretory/secretory products and its potential anti-apoptotic role in hepatocarcinoma PLC cells. PLoS Negl Trop Dis. 7 (12): e2606.

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA358G>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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