

Datasheet: MCA358G

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	Reacts with: Rabbit, Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
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**

UniProt:

[P60709](#) [Related reagents](#)
[P63261](#) [Related reagents](#)

Entrez Gene:

[60](#) ACTB [Related reagents](#)
[71](#) ACTG1 [Related reagents](#)

Synonyms

ACTB, ACTG

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity

Mouse anti Human F-Actin antibody, clone NH3 recognizes human 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.

References

1. Dransfield, I. *et al.* (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. *et al.* (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. *et al.* (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.](#)

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

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

Human Anti Mouse IgM (HCA040...) [FITC](#)

Recommended Negative Controls

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

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