

### Anti-F-actin antibody [NH3] ab205

★★★★★ [11 Abreviews](#) [112 References](#)

#### Overview

<b>Product name</b>	Anti-F-actin antibody [NH3]
<b>Description</b>	Mouse monoclonal [NH3] to F-actin
<b>Host species</b>	Mouse
<b>Specificity</b>	Clone NH3 recognises human Filamentous actin (F-actin) and reportedly also recognizes Globular actin (G-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. As this is a mouse IgM antibody, an anti-mouse IgM secondary antibody must be used to detect this primary.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-Fr, ICC/IF, IHC-R, Flow Cyt, WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Rabbit, Human
<b>Immunogen</b>	Tissue, cells or virus corresponding to F-actin. Human monocytes and U397 cell line.
<b>Epitope</b>	This antibody is reported to recognise actin in the filamentous form with the epitope likely to be located between residues 120 and 226 of the molecule.
<b>Positive control</b>	gastrointestinal tissue
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.1% Sodium azide
<b>Purity</b>	Purified IgM
<b>Purification notes</b>	Purified IgM prepared from tissue culture supernatant.

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	NH3
<b>Myeloma</b>	NS1
<b>Isotype</b>	IgM
<b>Light chain type</b>	unknown

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab205 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (3)	Use at an assay dependent concentration.
IHC-R	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. <b>ab91545</b> - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (4)	Use at an assay dependent concentration. Predicted molecular weight: 41 kDa. As this is a mouse IgM antibody, an anti-mouse IgM secondary antibody must be used to detect this primary.
IP		Use at an assay dependent concentration. PubMed: 27336173

## Target

<b>Function</b>	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
<b>Involvement in disease</b>	Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYTJ patients manifest progressive, generalized, dopa-unresponsive dystonia, developmental malformations and sensory hearing loss.
<b>Sequence similarities</b>	Belongs to the actin family.
<b>Post-translational modifications</b>	ISGylated.
<b>Cellular localization</b>	Cytoplasm > cytoskeleton. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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