

Anti-mono methyl Arginine antibody [5D1] ab415

[7 References](#) [2 Images](#)

Overview

Product name	Anti-mono methyl Arginine antibody [5D1]
Description	Mouse monoclonal [5D1] to mono methyl Arginine
Host species	Mouse
Tested applications	Suitable for: WB, ChIP
Species reactivity	Reacts with: Species independent
General notes	<p>This antibody will be of central importance in analysing the methylation status of chromatin and transcription factors. Since it recognises monomethyl arginine only it can be used in parallel with ab413 (detects dimethyl arginine only) and ab412 (detects both monomethyl and dimethyl arginine) to monitor the exact modification status.</p> <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&As</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Constituents: 0.75% Glycine, 1.21% Tris, 2% Sucrose
Purity	Protein A purified
Primary antibody notes	<p>This antibody will be of central importance in analysing the methylation status of chromatin and transcription factors. Since it recognises monomethyl arginine only it can be used in parallel with ab413 (detects dimethyl arginine only) and ab412 (detects both monomethyl and dimethyl arginine) to monitor the exact modification status.</p>
Clonality	Monoclonal
Clone number	5D1
Myeloma	unknown

Isotype IgG1
Light chain type kappa

Applications

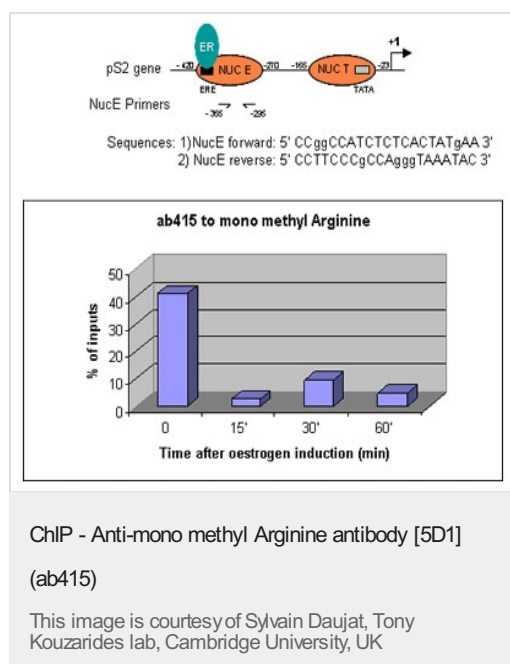
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab415 in the following tested applications.

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

Application	Abreviews	Notes
WB		Use at an assay dependent dilution.
ChIP		Use 5µl for 10 ⁶ cells.

Target

Images



Sonicated Chromatin prepared from untreated or 17beta-estradiol (E2) treated MCF7 cells was subjected to the ChIP procedure (see protocol) with ab415 to mono methyl Arginine.

Immunoprecipitated chromatin was analysed in the proximal region of the estrogen-responsive pS2 promoter (as shown above) and quantified by real-time PCR (values are % of inputs). The primers are designed to follow the nucleosome E (including the Estrogen Responsive Element ERE). 5 µl of ab415 and 4x10⁶ cells were used in each ChIP experiment.

Antibody Name	AG1	AG2	AG3	AG4	IG1	IG2	Het
Mouse monoclonal [5D1] to mono methyl Arginine (ab415)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ChIP - Anti-mono methyl Arginine antibody [5D1] (ab415)

We looked at chicken chromatin and then analysed 4 active genes (AG1-4), 2 inactive genes (IG1-2) as well as heterochromatin (Het). A "Yes" indicates that the antibody immunoprecipitated material well above background and should be regarded as a positive result.

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