

Product datasheet

Anti-mono and dimethyl Arginine antibody [7E6] ab412

★★★★★ 1 Abreviews 38 References 2 Images

Overview

Product name	Anti-mono and dimethyl Arginine antibody [7E6]
Description	Mouse monoclonal [7E6] to mono and dimethyl Arginine
Host species	Mouse
Tested applications	Suitable for: IP, ChIP, ELISA Unsuitable for: WB
Species reactivity	Reacts with: Species independent
Immunogen	Asymmetrical N ^G /N ^G -dimethyl arginine
Positive control	Methylated histones are an option
General notes	<p>This antibody will be of central importance in analysing the methylation status of chromatin and transcription factors. Since it recognises both dimethyl and monomethyl arginine it can be used in parallel with ab413 (detects dimethyl arginine only) and ab414 (detects monomethyl arginine only) to monitor the exact modification status. A tissue culture supernatant version is available as ab5394.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as</p>

customer reviews and Q&As.

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	This antibody will be of central importance in analysing the methylation status of chromatin and transcription factors. Since it recognises both dimethyl and monomethyl arginine it can be used in parallel with ab413 (detects dimethyl arginine only) and ab414 (detects monomethyl arginine only) to monitor the exact modification status. A tissue culture supernatant version is available as ab5394 .
Clonality	Monoclonal
Clone number	7E6
Myeloma	unknown
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab412** in the following tested applications.

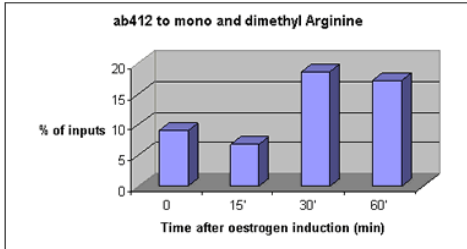
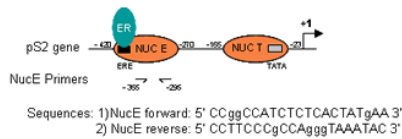
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP	★★★★★	Use at an assay dependent concentration.
ChIP		Use 3µl for 10 ⁶ cells.
ELISA		Use a concentration of 0.05 - 0.5 µg/ml.

Application notes Is unsuitable for WB.

Target

Images

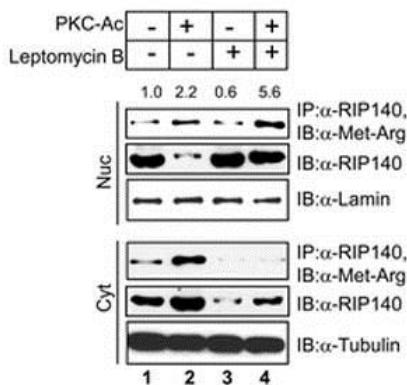


ChIP - Anti-mono and dimethyl Arginine antibody [7E6] (ab412)

This image is courtesy of Sylvain Daujat, Tony Kouzarides lab, Cambridge University, UK

Sonicated Chromatin prepared from untreated or 17beta-estradiol (E2) treated MCF7 cells was subjected to the ChIP procedure (see protocol) with ab412 to mono and dimethyl 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). 3 µl of ab412 and 4x10⁶ cells were used in each ChIP experiment.



Immunoprecipitation - Anti-mono and dimethyl Arginine antibody [7E6] (ab412)

Image from P Gupta et al, PLoS ONE 3:e2658 (2008), Fig 2.

RIP140 null adipocytes extracts were suspended in 250 µl of immunoprecipitation buffer (150 mM NaCl, 50 mM Tris-HCl (pH 8.0), 1 mM EDTA, 0.2% (v/v) Nonidet P40, 2 mM PMSF, 0.1% (w/v) SDS and a protease-inhibitor cocktail). Protein extracts (200 µg) were incubated with antibodies to RIP140, 14-3-3, or PRMT1 overnight at 4°C, and precipitated with protein G-agarose beads for 1–2 hours. ab412 was then used (amongst other antibodies) in Western Blot. Reduced protein inputs were used for ectopic expression of RIP140 to avoid saturation.

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