

Anti-MAX antibody [73C5α] ab53570

★★★★★ [1 Abreviews](#) [11 References](#) [2 Images](#)

Overview

Product name	Anti-MAX antibody [73C5α]
Description	Mouse monoclonal [73C5α] to MAX
Host species	Mouse
Tested applications	Suitable for: ChIP, Flow Cyt, Dot blot, WB
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Recombinant human MAX
General notes	<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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 1% BSA, 0.03% Potassium phosphate, 0.812% Sodium chloride, 0.1312% Sodium phosphate, 0.0225% Potassium chloride, PBS</p>
Purity	Protein G purified
Purification notes	ab53570 was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum and filtered through a 0.22µm membrane.
Clonality	Monoclonal
Clone number	73C5α
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53570 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
ChIP		Use at an assay dependent concentration. PubMed: 20797623
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
Dot blot		Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 18 kDa).

Target

Function

Transcription regulator. Forms a sequence-specific DNA-binding protein complex with MYC or MAD which recognizes the core sequence 5'-CAC[GA]TG-3'. The MYC:MAX complex is a transcriptional activator, whereas the MAD:MAX complex is a repressor. May repress transcription via the recruitment of a chromatin remodeling complex containing H3 'Lys-9' histone methyltransferase activity.

Tissue specificity

High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle.

Involvement in disease

Pheochromocytoma

Sequence similarities

Belongs to the MAX family.
Contains 1 bHLH (basic helix-loop-helix) domain.

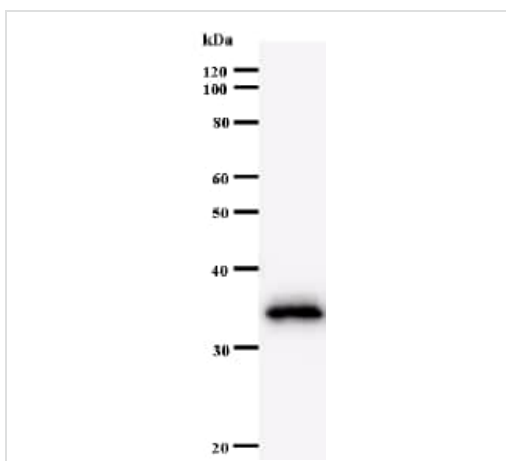
Post-translational modifications

Reversible lysine acetylation might regulate the nuclear-cytoplasmic shuttling of specific Max complexes.

Cellular localization

Nucleus. Cell projection, dendrite.

Images

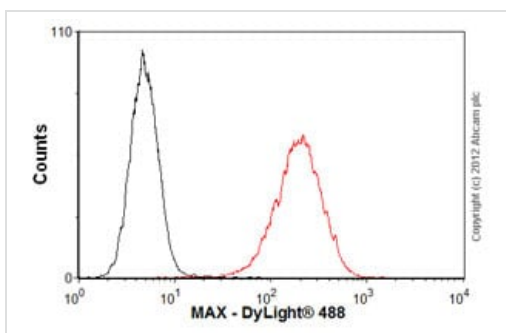


Western blot - Anti-MAX antibody [73C5a] (ab53570)

Anti-MAX antibody [73C5a] (ab53570) + immunised recombinant protein

Predicted band size: 18 kDa

Observed band size: 34 kDa



Flow Cytometry - Anti-MAX antibody [73C5a] (ab53570)

Overlay histogram showing A549 cells stained with ab53570 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab53570, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 2µg/1x10⁶ cells) used under the same conditions.

Acquisition of >5,000 events was performed. This antibody gave a positive signal in A549 cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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

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