




Product datasheet

Anti-Pea3 antibody [1A2G3] ab70425

★★★★★ [2 Abreviews](#) [7 References](#) [3 Images](#)

Overview

Product name	Anti-Pea3 antibody [1A2G3]
Description	Mouse monoclonal [1A2G3] to Pea3
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, WB
Species reactivity	Reacts with: Human, Recombinant fragment Predicted to work with: Mouse 
Immunogen	Recombinant fragment corresponding to Human Pea3 aa 50-109. Sequence: SEDLFQDLSHFQETWLAEAQVPDSDEQFVPDFHSENLA FHSPTRIKKEP QSPRTDPALS Database link: P43268  Run BLAST with  Run BLAST with
Positive control	Truncated Trx-Pea3 recombinant protein and full length Pea3 hlgGFc transfected CHO-K1 cell lysate.
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein G purified

Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	1A2G3
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab70425 in the following tested applications.

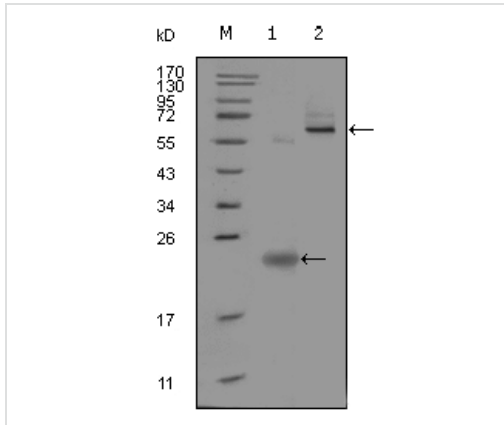
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/50 - 1/100. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Detects a band of approximately 60 kDa (predicted molecular weight: 54 kDa).

Target

Function	Transcriptional activator that binds to the enhancer of the adenovirus E1A gene; the core-binding sequence is 5'[AC]GGA[AT]GT-3'.
Sequence similarities	Belongs to the ETS family. Contains 1 ETS DNA-binding domain.
Post-translational modifications	Sumoylated; enhanced upon ERK/MAP kinase pathway activation, it positively regulates the transcriptional activator capacity. Sumoylation at Lys-96 probably requires phosphorylation at Ser-101. Transiently polysumoylated and desumoylated by SENP1. Sumoylation is a prerequisite to polyubiquitination which in turn increases proteasomal-mediated degradation. Probably polyubiquitinated by RNF4 and deubiquitinated by USP2.
Cellular localization	Nucleus.

Images



Western blot - Anti-Pea3 antibody [1A2G3]
(ab70425)

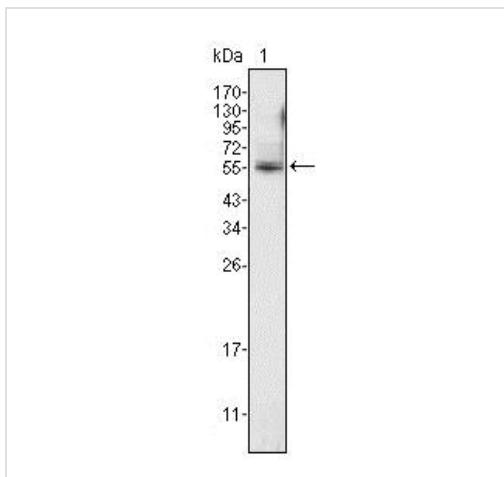
All lanes : Anti-Pea3 antibody [1A2G3] (ab70425) at 1/500 dilution

Lane 1 : Truncated Trx-Pea3 recombinant protein

Lane 2 : Full length Pea3 hlgGFc transfected CHO-K1 cell lysate

Predicted band size: 54 kDa

Observed band size: 24,60 kDa



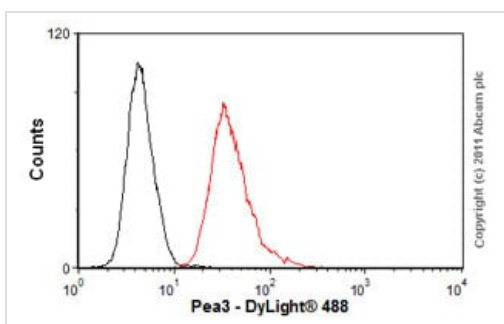
Western blot - Anti-Pea3 antibody [1A2G3]
(ab70425)

Anti-Pea3 antibody [1A2G3] (ab70425) at 1/2000 dilution + Cell lysates prepared from K562 cells at 100 µg

Secondary

HRP-conjugated Goat polyclonal to mouse IgG1

Predicted band size: 54 kDa



Flow Cytometry - Anti-Pea3 antibody [1A2G3]
(ab70425)

Overlay histogram showing K562 cells stained with ab70425 (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 (ab70425, 1/100 dilution) 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 IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in K562 cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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