

Product datasheet

Anti-Arp5 antibody ab12099

KO VALIDATED

★★★★☆ 2 Abreviews 9 References 2 Images

Overview

Product name	Anti-Arp5 antibody
Description	Rabbit polyclonal to Arp5
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: <i>Saccharomyces cerevisiae</i>
Immunogen	Recombinant full length protein corresponding to Arp5.
Positive control	<i>S. cerevisiae</i> 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. 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	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
Purity	Protein A purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab12099 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	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 87 kDa (predicted molecular weight: 87 kDa).

Target

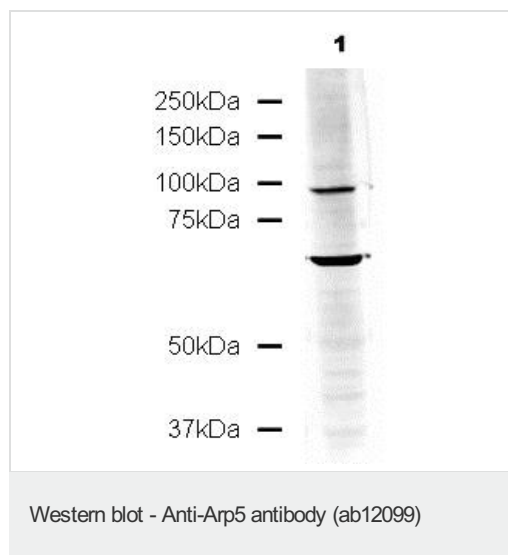
Relevance

The budding yeast INO80 complex is a conserved ATP-dependent nucleosome remodeler containing actin-related proteins Arp5 and Arp8. Strains lacking INO80, ARP5, or ARP8 have defects in transcription. Ino80, Arp5, and Arp8 are recruited to an HO-induced DSB, where a phosphorylated form of H2A accumulates. Recruitment of Ino80 is compromised in cells lacking the H2A phosphoacceptor S129. INO80-mediated chromatin remodeling seems to occur directly at DSBs, where it appears to facilitate processing of the lesion.

Cellular localization

Nuclear

Images



Anti-Arp5 antibody (ab12099) + *S.cerevisiae* lysate

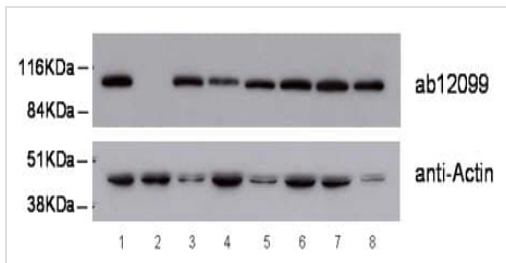
Secondary

Alexa Fluor Goat polyclonal to Rabbit IgG at 1/10000 dilution

Predicted band size: 87 kDa

Observed band size: 90 kDa

Additional bands at: 70 kDa (possible cross reactivity)



Western blot - Anti-Arp5 antibody (ab12099)

All lanes : Anti-Arp5 antibody (ab12099) at 0.36 µg/ml

Lane 1 : *S. cerevisiae* whole cell lysate (wild type)

Lane 2 : *S. cerevisiae* whole cell lysate (arp5 knockout)

Lane 3 : *S. cerevisiae* whole cell lysate (arp8 knockout)

Lane 4 : *S. cerevisiae* whole cell lysate (ino80 knockout)

Lane 5 : *S. cerevisiae* whole cell lysate (anc1 knockout)

Lane 6 : *S. cerevisiae* whole cell lysate (nhp10 knockout)

Lane 7 : *S. cerevisiae* whole cell lysate (wild type, treated with MMS)

Lane 8 : *S. cerevisiae* whole cell lysate (arp8 knockout, treated with MMS)

Predicted band size: 87 kDa

Observed band size: 100 kDa

Using ab12099, bands were present in all *S. cerevisiae* strains tested except for an arp5 knockout strain. This provides conclusive evidence that the ab12099 recognises Arp5.

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

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