

Product datasheet

Anti-PAICS antibody [5B6] ab117931

[3 Images](#)

Overview

Product name	Anti-PAICS antibody [5B6]
Description	Mouse monoclonal [5B6] to PAICS
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length Human PAICS produced in HEK293T cells (NP_006443).
Positive control	HEK293T cell lysate transfected with pCMV6-ENTRY PAICS; COS7 cells transiently transfected by pCMV6-ENTRY PAICS.
General notes	Stable for 12 months from date of receipt.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 1% BSA, 50% Glycerol
Purity	Protein A purified
Purification notes	ab117931 is purified from Mouse ascites fluids by affinity chromatography.
Clonality	Monoclonal
Clone number	5B6
Isotype	IgG2b

Applications

Our [Abpromise guarantee](#) covers the use of **ab117931** 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		1/2000. Predicted molecular weight: 47 kDa.
ICC/IF		1/100.
Flow Cyt		1/10000. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

Pathway

Purine metabolism; IMP biosynthesis via de novo pathway; 5-amino-1-(5-phospho-D-ribose)imidazole-4-carboxamide from 5-amino-1-(5-phospho-D-ribose)imidazole-4-carboxylate: step 1/2.

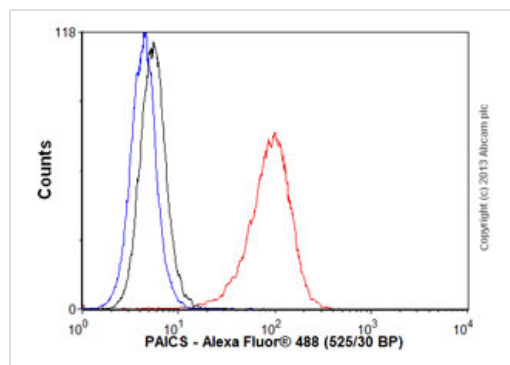
Purine metabolism; IMP biosynthesis via de novo pathway; 5-amino-1-(5-phospho-D-ribose)imidazole-4-carboxylate from 5-amino-1-(5-phospho-D-ribose)imidazole (carboxylase route): step 1/1.

Sequence similarities

In the N-terminal section; belongs to the SAICAR synthetase family.

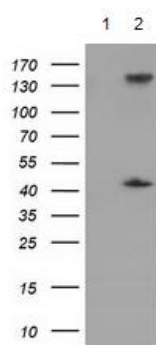
In the C-terminal section; belongs to the AIR carboxylase family.

Images



Flow Cytometry - Anti-PAICS antibody [5B6]
(ab117931)

Overlay histogram showing Jurkat cells stained with ab117931 (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 (ab117931, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) ([ab150113](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Western blot - Anti-PAICS antibody [5B6]
(ab117931)

All lanes : Anti-PAICS antibody [5B6]

(ab117931) at 1/2000 dilution

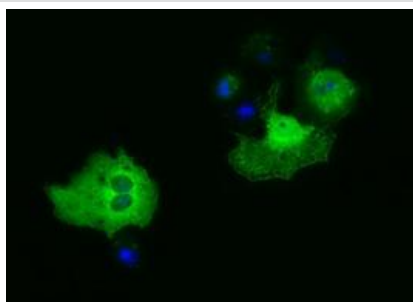
Lane 1 : HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA

Lane 2 : HEK293T cell lysate transfected with pCMV6-ENTRY PAICS cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size: 47 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC215225)



Immunocytochemistry/ Immunofluorescence - Anti-PAICS antibody [5B6] (ab117931)

ab117931 at 1/100 dilution staining PAICS in COS7 cells transiently transfected by pCMV6-ENTRY PAICS by Immunofluorescence.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors