

PAICS Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12945a

Specification

PAICS Antibody (N-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	P22234
Other Accession	P38024 , NP_001072992.1 , NP_006443.1
Reactivity	Human, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47079
Antigen Region	95-123

PAICS Antibody (N-term) - Additional Information

Gene ID 10606

Other Names

Multifunctional protein ADE2, Phosphoribosylaminoimidazole-succinocarboxamide synthase, SAICAR synthetase, Phosphoribosylaminoimidazole carboxylase, AIR carboxylase, AIRC, PAICS, ADE2, AIRC, PAIS

Target/Specificity

This PAICS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-123 amino acids from the N-terminal region of human PAICS.

Dilution

FC~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PAICS Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PAICS Antibody (N-term) - Protein Information

Name PAICS ([HGNC:8587](#))

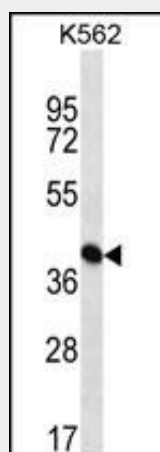
Function Bifunctional phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazole succinocarboxamide synthetase catalyzing two reactions of the de novo purine biosynthetic pathway.

PAICS Antibody (N-term) - Protocols

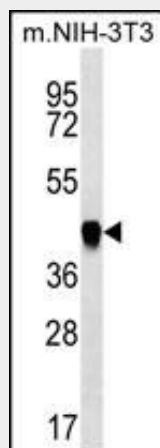
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

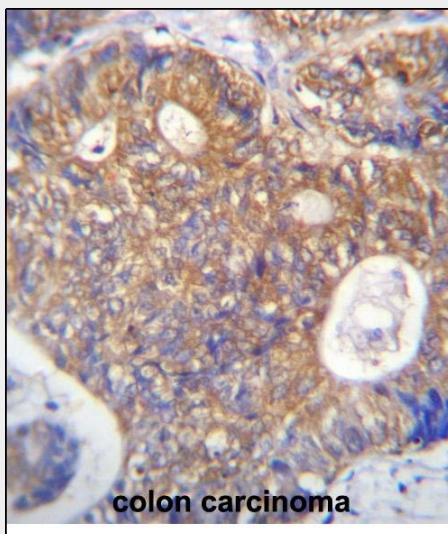
PAICS Antibody (N-term) - Images



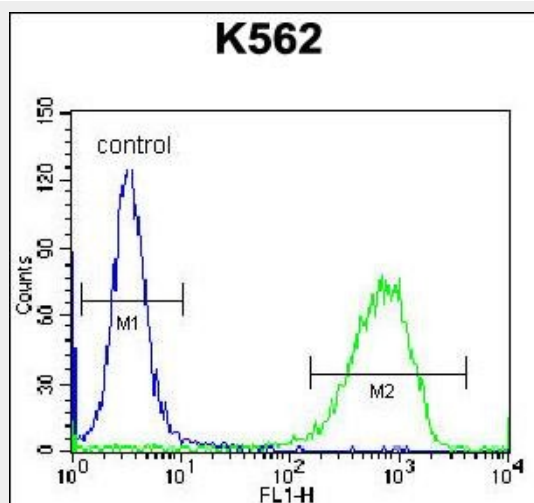
PAICS Antibody (N-term) (Cat. #AP12945a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the PAICS antibody detected the PAICS protein (arrow).



PAICS Antibody (N-term) (Cat. #AP12945a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the PAICS antibody detected the PAICS protein (arrow).



PAICS Antibody (N-term) (Cat. #AP12945a) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PAICS Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



PAICS Antibody (N-term) (Cat. #AP12945a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

PAICS Antibody (N-term) - Background

This gene encodes a bifunctional enzyme containing phosphoribosylaminoimidazole carboxylase activity in its N-terminal region and phosphoribosylaminoimidazole succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis. The gene is closely linked and divergently transcribed with a locus that encodes an enzyme in the same pathway, and transcription of the two genes is coordinately regulated. The human genome contains several pseudogenes of this gene. Multiple transcript variants encoding different isoforms have been found for this gene.

PAICS Antibody (N-term) - References

Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)
Ikeda, M., et al. Biol. Psychiatry 67(3):263-269(2010)
Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :