

Rabbit PAICS Polyclonal Antibody | anti-PAICS antibody

PAICS Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286361	Rabbit	Human, mouse (Predicted Reactivity: Chicken)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

PAICS; Polyclonal Antibody; PAICS Antibody (N-term); Multifunctional protein ADE2; Phosphoribosylaminoimidazole-succinocarboxamide synthase; SAICAR synthetase; Phosphoribosylaminoimidazole carboxylase; AIR carboxylase; AIRC; ADE2; PAIS; anti-PAICS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Chicken)
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	95-123
Sequence Length	425
Applicable Applications for anti-PAICS antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

PAICS Antibody (N-term) 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.

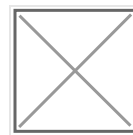


IHC (Immunohistochemistry)

PAICS Antibody (N-term) 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.

**WB (Western Blot)**

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

**WB (Western Blot)**

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

ADDITIONAL INFORMATION

Related Product Information for anti-PAICS antibody	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.
Product Categories/Family for anti-PAICS antibody	Metabolism ; Signal Transduction
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) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	119220557
NCBI GeneID	10606
NCBI Accession #	NP_001072992.1 ; NP_001072993.1 ; NP_006443.1
NCBI GenBank Nucleotide #	NM_001079524.1
UniProt Accession #	P22234 ; Q68CQ5 ; E9PDH9
Molecular Weight	47079
NCBI Official Full Name	multifunctional protein ADE2 isoform 2
NCBI Official Synonym Full Names	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase
NCBI Official Symbol	PAICS
NCBI Official Synonym Symbols	ADE2; AIRC; PAIS; ADE2H1
NCBI Protein Information	multifunctional protein ADE2
UniProt Protein Name	Multifunctional protein ADE2
UniProt Gene Name	PAICS
UniProt Synonym Gene Names	ADE2; AIRC; PAIS; AIRC
UniProt Entry Name	PUR6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

