

PAICS Polyclonal Antibody

Catalog number: 12967-1-AP

Size: 26 µg/150 µl

Source: Rabbit

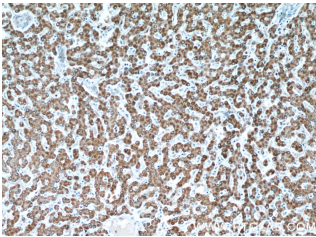
Isotype: IgG

Synonyms:

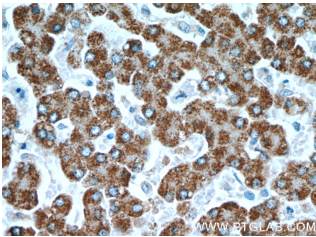
PAICS; ADE2, ADE2H1, AIR

carboxylase, AIRC,

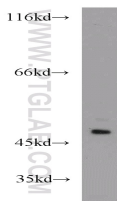
DKFZp781N1372, PAICS, PAIS



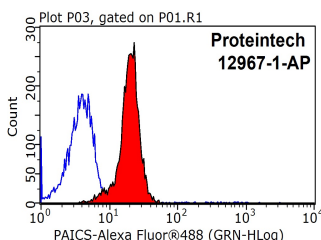
Immunohistochemical of paraffin-embedded human liver using 12967-1-AP (PAICS antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver using 12967-1-AP (PAICS antibody) at dilution of 1:50 (under 40x lens)



Jurkat cells were subjected to SDS PAGE followed by western blot with 12967-1-AP (PAICS antibody) at dilution of 1:1000



1X10⁶ HeLa cells were stained with 0.2µg PAICS

Background

PAICS is also named as ADE2 (Multifunctional protein), AIRC, PAIS. It is an important bifunctional enzyme in de novo purine biosynthesis in vertebrate with both 5-aminoimidazole ribonucleotide carboxylase (AIRc) and 4-(N-succinylcarboxamide)-5-aminoimidazole ribonucleotide synthetase (SAICARs) activities. It becomes an attractive target for rational anticancer drug design, since rapidly dividing cancer cells rely heavily on the purine de novo pathway for synthesis of adenine and guanine, whereas normal cells favor the salvage pathway (PMID:17224163).

Applications

Tested applications:	ELISA, IHC, FC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated PAICS MW:	425aa, 47 kDa
Observed PAICS MW:	47kd
Positive WB detected in	Jurkat cells, HeLa cells, mouse brain tissue, mouse heart tissue, Raji cells
Positive IHC detected in	Human liver tissue, human testis tissue
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200 FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3621
GenBank accession number:	BC010273
Gene ID (NCBI):	10606
Full name:	Phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

antibody (12967-1-AP, red)
and control antibody (blue).
Fixed with 90% MeOH
blocked with 3% BSA (30
min). Alexa Fluor 488-
conjugated AffiniPure Goat
Anti-Rabbit IgG(H+L) with
dilution 1:1500.