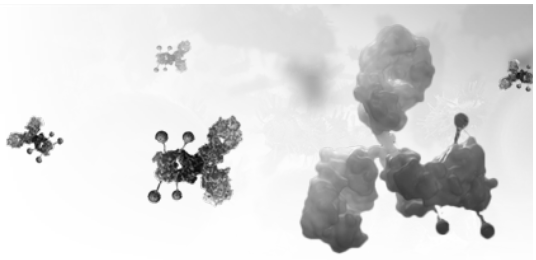

Anti-PAICS monoclonal antibody, clone 6C7 (DCABH-572)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to PAICS
Antigen Description	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.
Immunogen	Recombinant full length Human PAICS produced in HEK293T cells (NP_006443).
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	6C7
Purification	This antibody is purified from Mouse ascites fluids by affinity chromatography.
Conjugate	Unconjugated
Applications	WB, ICC/IF, Flow Cyt
Positive Control	HEK293T cell lysate transfected with pCMV6-ENTRY PAICS; COS7 cells transiently transfected by pCMV6-ENTRY PAICS.
Format	Liquid

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Size	100 µl
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 1% BSA, 50% Glycerol
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	PAICS phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase [Homo sapiens]
Official Symbol	PAICS
Synonyms	PAICS; phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase; PAIS; multifunctional protein ADE2; ADE2H1; AIRC; AIR carboxylase; SAICAR synthetase; multifunctional protein ADE2H1; ADE2; MGC1343; MGC5024; DKFZ
Entrez Gene ID	10606
Protein Refseq	NP_001072992
UniProt ID	A0A024RD93
Chromosome Location	4q12
Pathway	Inosine monophosphate biosynthesis, PRPP + glutamine => IMP, organism-specific biosystem; Inosine monophosphate biosynthesis, PRPP + glutamine => IMP, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem;
Function	5-(carboxyamino)imidazole ribonucleotide mutase activity; ATP binding; identical protein binding; ligase activity; lyase activity; nucleotide binding; phosphoribosylaminoimidazole carboxylase activity; phosphoribosylaminoimidazolesuccinocarboxamide syntha

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