

Product datasheet for **AP14675PU-N**

IARS2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/50 - 1/100. Immunohistochemistry: 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the Center region of human IARS2.
Specificity:	This antibody reacts to IARS2.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	isoleucyl-tRNA synthetase 2, mitochondrial
Database Link:	Entrez Gene 55699 Human Q9NSE4



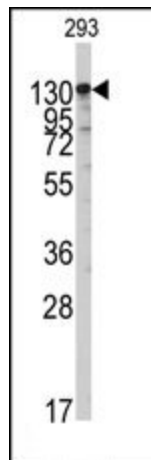
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Background:

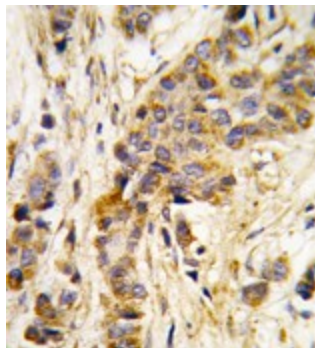
IARS2 belongs to the class-I aminoacyl-tRNA synthetase family. Members of class I have two highly conserved sequence motifs. They aminoacylate at the 2'-OH of an adenosine nucleotide, and are usually monomeric or dimeric (one or two subunits, respectively). Both classes of aminoacyl-tRNA synthetases are multidomain proteins. The catalytic domains of all the aaRSs of a given class are found to be homologous to one another, while class I and class II aaRSs are unrelated to one another. The class I aaRSs have the ubiquitous Rossmann fold and have the antiparallel beta-strands architecture while the class II aaRSs have a unique fold made up of antiparallel beta-strands.

Synonyms:

mitochondrial Isoleucine-tRNA ligase, IleRS

Product images:

Western blot analysis of anti-IARS2 Antibody (Center) in 293 cell line lysates (35ug/lane). IARS2 (arrow) was detected using the purified Pab (1:60 dilution).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with IARS2 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.