

IARS2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7840c

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9NSE4
Other Accession	Q4R646
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14820
Calculated MW	113792
Antigen Region	600-628

Additional Information

Gene ID	55699
Other Names	Isoleucine--tRNA ligase, mitochondrial, Isoleucyl-tRNA synthetase, IleRS, IARS2
Target/Specificity	This IARS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 600-628 amino acids from the Central region of human IARS2.
Dilution	IHC-P~~1:100~500 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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	IARS2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

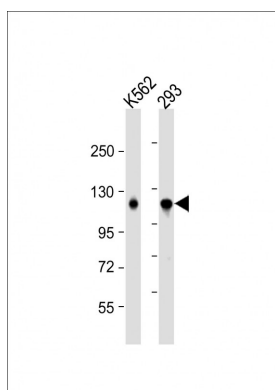
Protein Information

Name	IARS2 (HGNC:29685)
Function	Aminoacyl-tRNA synthetase that catalyzes the specific attachment of isoleucine to its cognate tRNA (tRNA(Ile)).

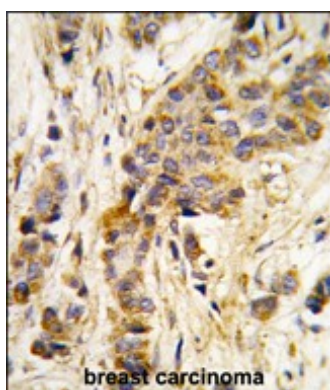
Background

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.

Images



All lanes : Anti-IARS2 Antibody (Center) at 1:1000 dilution
Lane 1: K562 whole cell lysate Lane 2: 293 whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 114 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



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. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.