10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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, Mouse, Rat, Bovine, Canine, Rabbit, Chicken
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

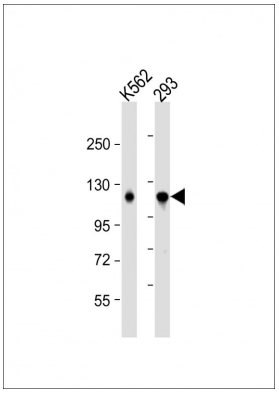
Name	IARS2 (HGNC:29685)
Function	Aminoacyl-tRNA synthetase that catalyzes the specific attachment of isoleucine to its cognate tRNA (tRNA(Ile)).

Cellular Location Mitochondrion matrix.

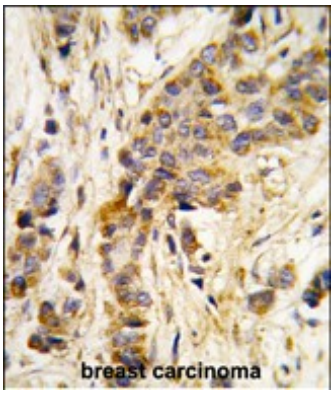
Background

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'.