

## Allgemeine Informationen

Katalog-Nr.:  
17170-1-AP

Größe:  
150ul , Konzentration: 400 µg/ml von  
Nanodrop und 300 µg/ml durch die  
Bradford-Methode mit BSA als  
Standard;

Wirt:  
Kaninchen

Isotyp:  
IgG

Immunogen Katalognummer:  
AG10696

GenBank-Zugangsnummer:  
BC010218

GeneID (NCBI):  
55699

Vollständiger Name:  
isoleucyl-tRNA synthetase 2,  
mitochondrial

Berechnete Masse:  
1012 aa, 114 kDa

Beobachtete Masse:  
114 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:1000-1:4000

IP 0.5-4.0 ug für IP und 1:500-1:1000  
für WB

IHC 1:50-1:500

IF 1:10-1:100

## Anwendungen

Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human

**Hinweis-IHC: Antigendemaskierung mit TE-  
Puffer pH 9,0 empfohlen. (\*) Wahlweise  
kann die Antigendemaskierung auch mit  
Citratpuffer pH 6,0 erfolgen.**

Positivkontrollen:

WB : HeLa-Zellen, Jurkat-Zellen, Maushirngewebe,  
Mauslungengewebe

IP : HeLa-Zellen, Jurkat-Zellen

IHC : humanes Leberkarzinomgewebe, humanes  
Nierengewebe

IF : HepG2-Zellen,

## Hintergrundinformationen

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of isoleucine-tRNA synthetase exist, a cytoplasmic form and a mitochondrial form. This gene encodes the mitochondrial isoleucine-tRNA synthetase which belongs to the class-I aminoacyl-tRNA synthetase family.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Xin Di	31157169	Front Oncol	WB
Sung-Hoon Kim	33340489	Mol Cell	IF, WB
Yue-Ming Yu	34495060	Rev Assoc Med Bras (1992)	WB

## Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

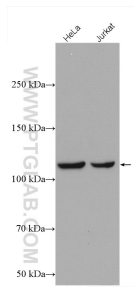
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

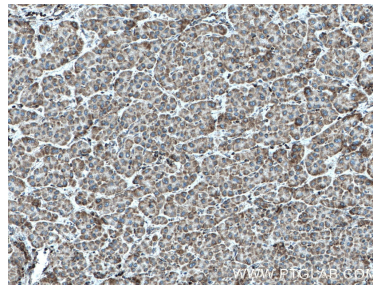
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech  
Group brand and is not available to purchase from any  
other manufacturer.**

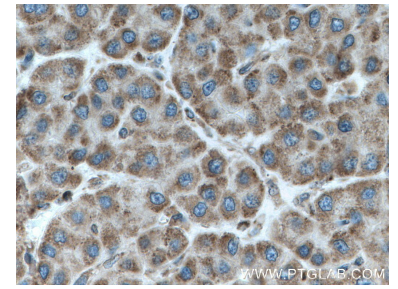
## Ausgewählte Validierungsdaten



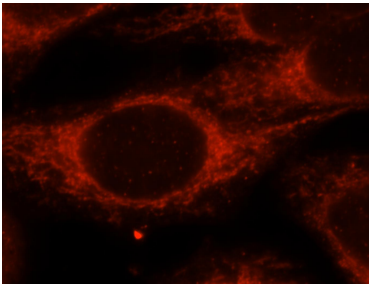
HeLa cells were subjected to SDS PAGE followed by western blot with 17170-1-AP (IARS2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



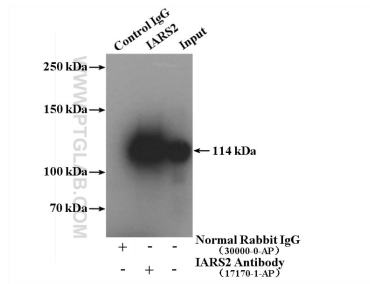
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17170-1-AP (IARS2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



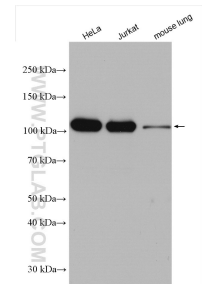
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17170-1-AP (IARS2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using IARS2 antibody 17170-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP Result of anti-IARS2 (IP:17170-1-AP, 4ug; Detection:17170-1-AP 1:800) with HeLa cells lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 17170-1-AP (IARS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.