

For Research Use Only

# HARS2 Polyclonal antibody

Catalog Number: 11301-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

11301-1-AP

**Size:**

350 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1827

**GenBank Accession Number:**

BC014982

**GeneID (NCBI):**

23438

**UNIPROT ID:**

P49590

**Full Name:**

histidyl-tRNA synthetase 2, mitochondrial (putative)

**Calculated MW:**

57 kDa

**Observed MW:**

50-55 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** MCF7 cells, HEK-293 cells, human heart tissue, MCF-7 cells, mouse kidney tissue

**IP:** HEK-293 cells,

**IHC:** human breast cancer tissue, human kidney tissue

## Background Information

HARS2, also named as HARSL, HARSR, HO3 and HisRS, belongs to the class-II aminoacyl-tRNA synthetase family. It is an enzyme that catalyzes the esterification of histidine to its cognate tRNA as an early step in protein biosynthesis. When overexpressed in HIV-1-producing cells, HARS2 was incorporated into wild-type virions but not in ones containing the dilysine-mutated variant of matrix(MA) protein. HO3, through its recognition of MA, plays a role in the life cycle of HIV-1. (PMID: 9445076, 7755634). 1-33aa of HARS2 is transit peptide and this part will be cut in some form (~52kd) of HARS2. This antibody can bind both HARSs for the close sequences.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jana Key	36611846	Cells	WB
Pengcheng Xu	34975414	Front Cell Neurosci	WB
Shasha Gong	31819004	J Biol Chem	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

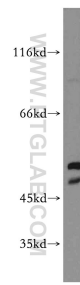
T: 4006900926

E: Proteintech-CN@ptglab.com

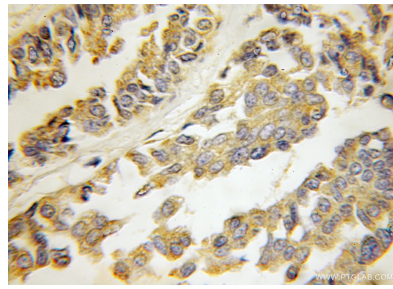
W: ptgcn.com

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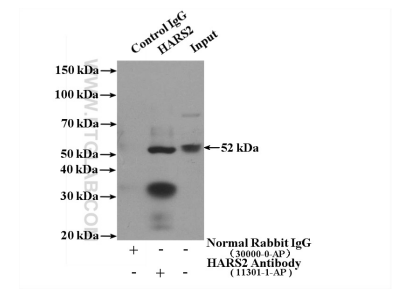
## Selected Validation Data



MCF7 cells were subjected to SDS PAGE followed by western blot with 11301-1-AP (HARS2 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 11301-1-AP (HARS2 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-HARS2 (IP:11301-1-AP, 4ug; Detection:11301-1-AP 1:500) with HEK-293 cells lysate 3000ug.