

For Research Use Only

HARS2 Polyclonal antibody

Catalog Number: 11301-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

11301-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

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

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

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 HARs 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

*** 20ul sizes contain 0.1% BSA

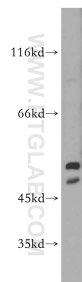
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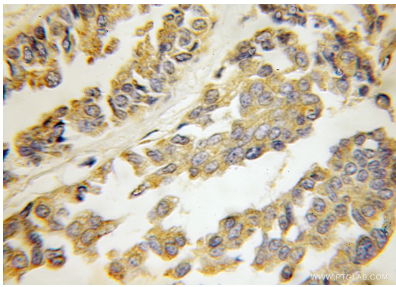
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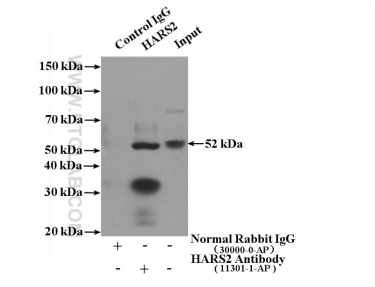
Selected Validation Data



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.