

HARS2 Polyclonal Antibody

Catalog number: 11301-1-AP

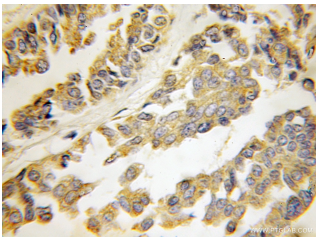
Size: 30 µg/150 µl

Source: Rabbit

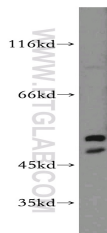
Isotype: IgG

Synonyms:

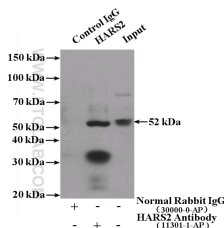
HARS2; HARS2, HARSL,
HARSR, HisRS, Histidine tRNA
ligase, Histidine tRNA ligase
like, HO3



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



MCF7 cells were subjected to SDS PAGE followed by western blot with 11301-1-AP (HARS2 antibody) at dilution of 1:200



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

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated HARS2 MW:	57 kDa
Observed HARS2 MW:	50-55 kDa
Positive WB detected in	MCF7 cells, HEK-293 cells, human heart tissue, mouse kidney tissue
Positive IP detected in	HEK-293 cells
Positive IHC detected in	Human breast cancer tissue, human kidney tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1827
GenBank accession number:	BC014982
Gene ID (NCBI):	23438
Full name:	Histidyl-tRNA synthetase 2, mitochondrial (putative)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.