



Anti-HARS2 (aa 2-110) polyclonal antibody (DPAB-DC1103)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is an enzyme belonging to the class II family of aminoacyl-tRNA synthetases. Functioning in the synthesis of histidyl-transfer RNA, the enzyme plays an accessory role in the regulation of protein biosynthesis. The gene is located in a head-to-head orientation with HARS on chromosome five, where the homologous genes likely share a bidirectional promoter. Mutations in this gene are associated with the pathogenesis of Perrault syndrome, which involves ovarian dysgenesis and sensorineural hearing loss. Alternative splicing results in multiple transcript variants of this gene.
Immunogen	HARSL (NP_036340, 2 a.a. ~ 110 a.a) partial recombinant protein with GST tag. The sequence is PLLGLLPRRAWASLLSQLLRPPCASCTGAVRCQSQVAEAVLSQLKAHQEKPNFIKTPK GTRDLSPQHMVVREKILDLVISCFKRHGAKGMDTPAFELKETLTEKYGE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HARS2 histidyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	HARS2
Synonyms	HARS2; histidyl-tRNA synthetase 2, mitochondrial; HO3; HARSL; HARS; PRLTS2; probable histidine--tRNA ligase, mitochondrial; hisRS; HARS-related; histidine translase; histidine-tRNA ligase homolog; probable histidyl-tRNA synthetase, mitochondrial; histidine tRNA ligase 2, mitochondrial (putative); histidyl-tRNA synthetase 2, mitochondrial (putative);
Entrez Gene ID	23438
Protein Refseq	NP_001265660
UniProt ID	P49590
Chromosome Location	5q31.3
Pathway	Aminoacyl-tRNA biosynthesis; Gene Expression; tRNA Aminoacylation;
Function	ATP binding; histidine-tRNA ligase activity; poly(A) RNA binding;