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Rabbit Anti-HARS antibody

SL20281R

Product Name:	HARS
Chinese Name:	组氨酸tRNA连接酶抗体
Alias:	EC 6.1.1.21; FLJ20491; HisRS; Jo-1; histidine translase; Histidine tRNA ligase; Histidyl tRNA synthetase; HRS; Human histidyl tRNA synthetase homolog (HO3) mRNA complete cds; SYHC_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HARS:21-120/509
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Aminoacyl-tRNA synthetases are a class of enzymes thatcharge tRNAs with their cognate amino acids. The protein encoded bythis gene is a cytoplasmic enzyme which belongs to the class IIfamily of aminoacyl-tRNA synthetases. The enzyme is responsible forthe synthesis of histidyl-transfer RNA, which is essential for theincorporation of histidine into proteins. The gene is located in ahead-to-head

orientation with HARSL on chromosome five, where thehomologous genes share a bidirectional promoter. The gene productis a frequent target of autoantibodies in the human autoimmunedisease polymyositis/dermatomyositis. Several transcript variantsencoding different isoforms have been found for this gene.

Subcellular Location:
Cytoplasmic

Tissue Specificity:
Brain, heart, liver and kidney.

Post-translational modifications:
Defects in HARS are a cause of Usher syndrome type 3B(USH3B) [MIM:614504]. USH3B is a syndrome characterized byprogressive vision and hearing loss during early childhood. Somepatients have the so-called 'Charles Bonnet syndrome,' involvingdecreased visual acuity and vivid visual hallucinations. USH is agenetically heterogeneous condition characterized by theassociation of retinitis pigmentosa with sensorineural deafness.Age at onset and differences in auditory and vestibular functiondistinguish Usher syndrome type 1 (USH1), Usher syndrome type 2(USH2) and Usher syndrome type 3 (USH3). USH3 is characterized bypostlingual, progressive hearing loss, variable vestibulardysfunction, and onset of retinitis pigmentosa symptoms, includingnyctalopia, constriction of the visual fields, and loss of centralvisual acuity, usually by the second decade of life.

Similarity:
Belongs to the class-II aminoacyl-tRNA synthetasefamily.
Contains 1 WHEP-TRS domain.

SWISS:
P12081

Gene ID:
3035

Database links:

Entrez Gene: 510937Cow

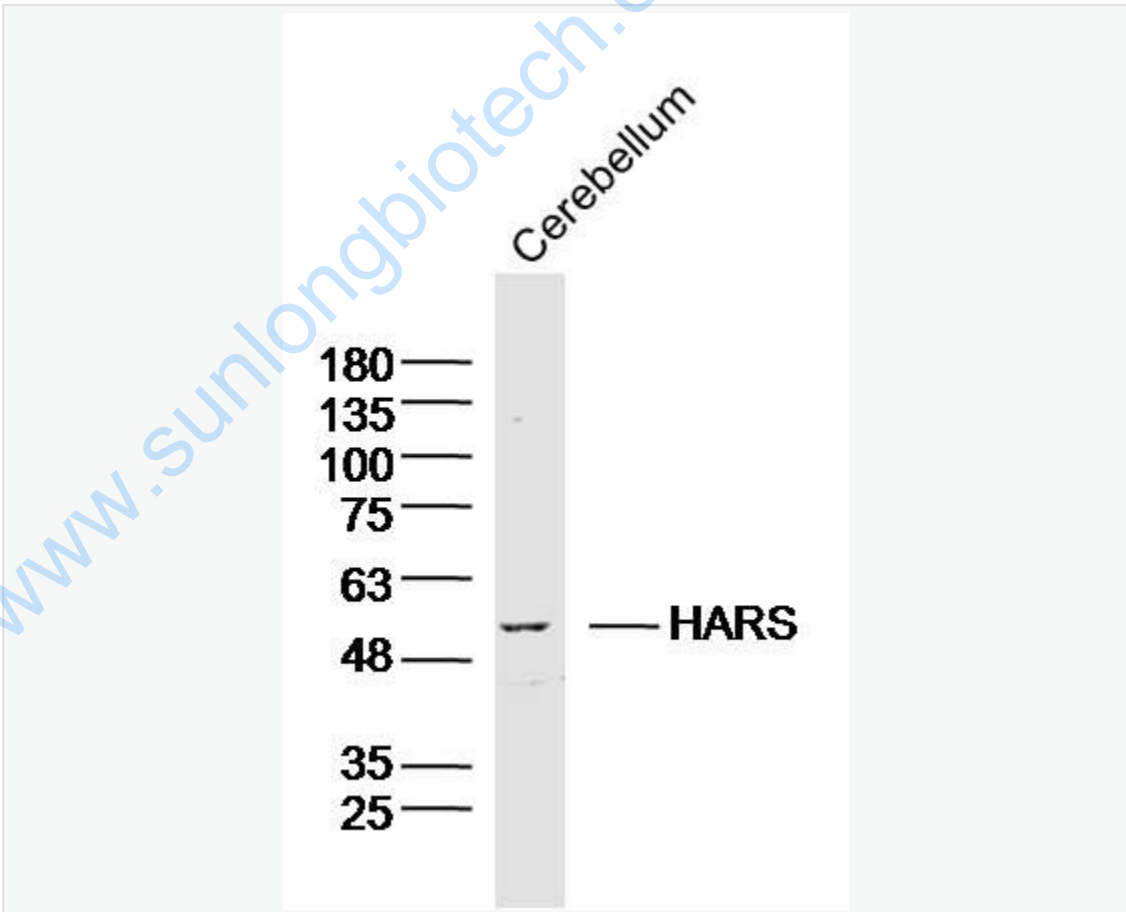
Entrez Gene: 3035Human

Entrez Gene: 15115Mouse

Entrez Gene: 100173931Orangutan

Entrez Gene: 307492Rat

Omim: 142810Human

	SwissProt: Q2KI84Cow SwissProt: P12081Human SwissProt: Q61035Mouse SwissProt: Q5R4R2Orangutan Unigene: 528050Human Unigene: 10528Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample:Cerebellum (Mouse)Lysate at 40 ug Primary: Anti-HARS(SL20281R)at 1/300 dilution

	Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 57kD Observed band size: 57kD