## For Research Use Only

## DARS2 Polyclonal antibody

Catalog Number: 13807-1-AP

Featured Product

**10 Publications** 

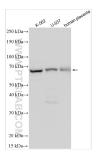


## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 13807-1-AP BC045173 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 600 µg/ml 55157 WB 1:1000-1:4000 IHC 1:50-1:500 UNIPROT ID: Source: IF/ICC 1:50-1:500 Rabbit Q6PI48 Isotype: Full Name: lgG aspartyl-tRNA synthetase 2, mitochondrial Immunogen Catalog Number: AG4809 Calculated MW: 645 aa, 74 kDa **Observed MW:** 66-74 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF/ICC, ELISA WB: K-562 cells, human placenta tissue, U-937 cells **Cited Applications:** IHC : mouse cerebellum tissue, human brain tissue, WB, IHC human testis tissue, human gliomas tissue Species Specificity: IF/ICC : A431 cells, human, mouse, rat **Cited Species:** human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 DARS2 is also named as AspRS (aspartyl-tRNA synthetase) and belongs to the class-II aminoacyl-tRNA synthetase **Background Information** family. The deduced 645-amino acid protein has a 47-amino acid mitochondrial targeting signal, resulting in a mature protein of 598 amino acids. DARS2 contains conserved residues involved in ATP binding, tRNA binding, and aspartic acid recognition, as well as catalytic site motifs characteristic of amino acid tRNA synthetases. It is a dimeric proteins(PMID:19443655). Rat aspartyl-tRNA synthetase has a N-terminal polypeptide extension of about 40 amino acid residues which can be removed without impairing its catalytic activity (PMID:9030747). This protein has different molecular mass(55 kDa, 50 kDa,66 kDa ) according to the publications(PMID:11306575; 19443655;15299749). **Notable Publications** Author Pubmed ID Journal Application Caroline A Hunter Int J Biochem Cell Biol WB 31542429 Sebastian Willenborg Cell Metab 34715039 WB Dominic Seiferling EMBO Rep WB 27154400 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

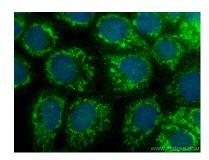
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## Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 13807-1-AP (DARS2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 13807-1-AP (DARS2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 13807-1-AP (DARS2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using DARS2 antibody (13807-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).