


Product datasheet

Anti-Glutamyl Prolyl tRNA synthetase/PARS antibody ab157128

2 Images

Overview

Product name	Anti-Glutamyl Prolyl tRNA synthetase/PARS antibody
Description	Rabbit polyclonal to Glutamyl Prolyl tRNA synthetase/PARS
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Cynomolgus monkey, Rhesus monkey, Gorilla, Common marmoset, Orangutan 
Immunogen	Synthetic peptide corresponding to Human Glutamyl Prolyl tRNA synthetase/PARS aa 150-200. Database link: NP_004437.2
Positive control	293T, HeLa and Jurkat whole cell lysates.
General notes	This product was previously labelled as Glutamyl Prolyl tRNA synthetase

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate
	pH 7 to 8
Purity	Immunogen affinity purified
Purification notes	ab157128 was affinity purified using an epitope specific to Glutamyl Prolyl tRNA synthetase/PARS immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab157128** in the following tested applications.

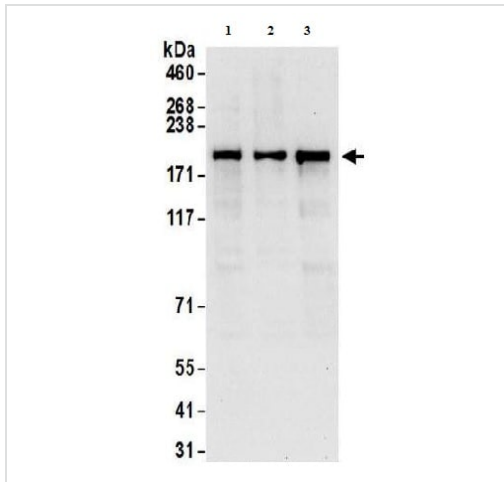
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 171 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

Function	Catalyzes the attachment of the cognate amino acid to the corresponding tRNA in a two-step reaction: the amino acid is first activated by ATP to form a covalent intermediate with AMP and is then transferred to the acceptor end of the cognate tRNA.
Sequence similarities	In the N-terminal section; belongs to the class-I aminoacyl-tRNA synthetase family. In the C-terminal section; belongs to the class-II aminoacyl-tRNA synthetase family. Contains 3 WHEP-TRS domains.
Domain	The WHEP-TRS domain is involved in RNA binding.
Post-translational modifications	Phosphorylated at Ser-886 by CDK5 in a IFN-gamma-dependent manner; this phosphorylation activates assembly of the GAIT (IFN-gamma-activated inhibitor of translation) complex, which suppresses expression of a post-transcriptional regulon of proinflammatory genes in myeloid cells.

Images



Western blot - Anti-Glutamyl Prolyl tRNA synthetase/PAARS antibody (ab157128)

All lanes : Anti-Glutamyl Prolyl tRNA synthetase/PAARS antibody (ab157128) at 0.1 µg/ml

Lane 1 : 293T cell lysate

Lane 2 : HeLa cell lysate

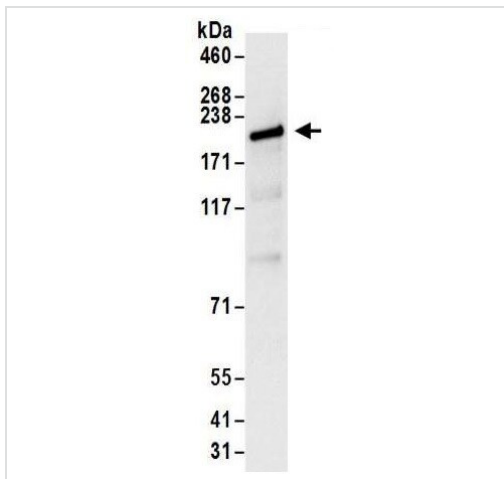
Lane 3 : Jurkat cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 171 kDa

Exposure time: 10 seconds



Immunoprecipitation - Anti-Glutamyl Prolyl tRNA synthetase/PAARS antibody (ab157128)

Detection of Glutamyl Prolyl tRNA synthetase/PAARS by Western Blot of Immunoprecipitate.

ab157128 at 1 µg/ml labeling Glutamyl Prolyl tRNA

synthetase/PAARS in 293T whole cell lysate immunoprecipitated using ab157128 at 6 µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).

Detection: Chemiluminescence with exposure time of 3 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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