Datasheet for ABIN7145566

anti-EPRS antibody (AA 1207-1399)

3 Images

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Overview

Quantity:	100 µg
Target:	EPRS
Binding Specificity:	AA 1207-1399
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPRS antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Bifunctional glutamate/proline--tRNA ligase protein (1207-1399AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	EPRS
Alternative Name:	EPRS (EPRS Products)
Background:	Background: 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

Target Details

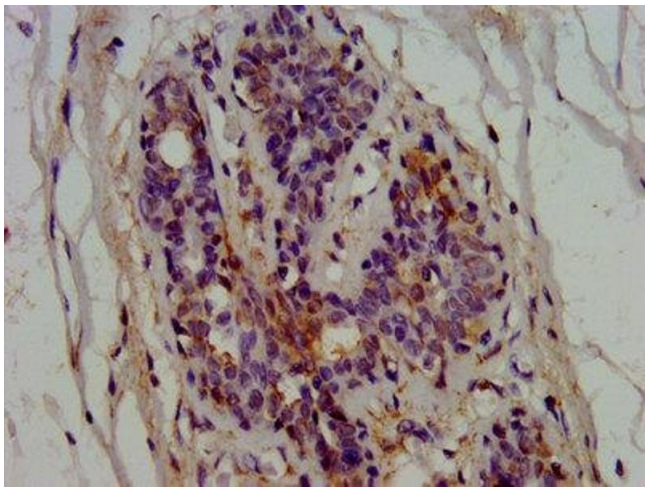
	with AMP and is then transferred to the acceptor end of the cognate tRNA. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma activation and subsequent phosphorylation dissociates from the multisynthetase complex and assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3\\\'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation. Aliases: Bifunctional aminoacyl tRNA synthetase antibody, Bifunctional aminoacyl-tRNA synthetase antibody, Bifunctional glutamate/proline tRNA ligase antibody, Cell proliferation-inducing gene 32 protein antibody, DKFZp313B047 antibody, EARS antibody, Eprs antibody, GLNS antibody, Glu pro tRNA synthetase antibody, GLUPRORS antibody, GluRS antibody, Glutamate tRNA ligase antibody, Glutamatyl prolyl tRNA synthetase antibody, Glutaminyl tRNA synthetase antibody, Glutamyl prolyl tRNA synthetase antibody, Glutamyl tRNA synthetase antibody, Glutamyl-tRNA synthetase antibody, PARS antibody, PIG 32 antibody, PIG32 antibody, Proliferation inducing gene 32 protein antibody, Proliferation inducing protein 32 antibody, Proline tRNA ligase antibody, Proline--tRNA ligase antibody, Prolyl tRNA synthetase antibody, Prolyl-tRNA synthetase antibody, QARS antibody, QPRS antibody, SYEP_HUMAN antibody
UniProt:	P07814

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:500-1:1000, IF:1:50-1:200,
Restrictions:	For Research Use only

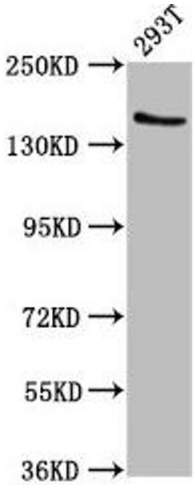
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



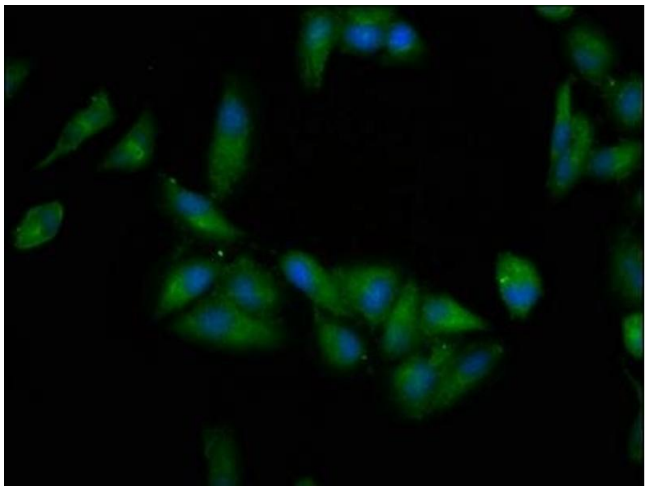
Immunohistochemistry

Image 1. IHC image of ABIN7145566 diluted at 1:600 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: 293T whole cell lysate All lanes: EPRS antibody at 7.4 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 171 kDa Observed band size: 171 kDa



Immunofluorescence

Image 3. Immunofluorescence staining of Hela cells with ABIN7145566 at 1:200, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).