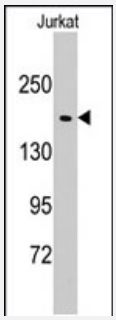
EPRS polyclonal antibody

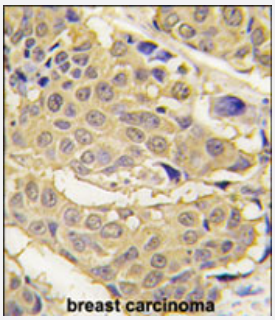
Catalog # PAB2965 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of EPRS polyclonal antibody (Cat # PAB2965) in Jurkat cell line lysates (35 ug/lane). EPRS (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with EPRS polyclonal antibody (Cat # PAB2965) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EPRS.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human EPRS.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — EPRS

Entrez GeneID	2058
Protein Accession#	NP_004437;P07814
Gene Name	EPRS
Gene Alias	DKFZp313B047, EARS, GLUPRORS, PARS, PIG32, QARS, QPRS
Gene Description	glutamyl-prolyl-tRNA synthetase
Omim ID	138295
Gene Ontology	Hyperlink
Gene Summary	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a multifunctional aminoacyl-tRNA synthetase that catal yzes the aminoacylation of glutamic acid and proline tRNA species. Alternative splicing has been observed for this gene, but the full-length nature and biological validity of the variant have not been determined. [provided by RefSeq

Other Designations	OTTHUMP00000035562|bifunctional aminoacyl-tRNA synthetase|glutamate tRNA ligase|glutaminyl-tRNA synthetase|glutamyl-prolyl tRNA synthetase|proliferation-inducing protein 32|proline tRNA ligase|proline-tRNA ligase|prolyl-tRNA synthetase

Publication Reference

- WHEP domains direct noncanonical function of glutamyl-Prolyl tRNA synthetase in translational control of gene expression.

  Jia J, Arif A, Ray PS, Fox PL.

  Molecular Cell 2008 Mar; 29(6):679.

  Application: IP, WB, Recombinant protein

- A probability-based approach for high-throughput protein phosphorylation analysis and site localization.

  Beausoleil SA, Villén J, Gerber SA, Rush J, Gygi SP.

  Nature Biotechnology 2006 Oct; 24(10):1285.

- A novel human tRNA-dihydrouridine synthase involved in pulmonary carcinogenesis.

  Kato T, Daigo Y, Hayama S, Ishikawa N, Yamabuki T, Ito T, Miyamoto M, Kondo S, Nakamura Y.

  Cancer Research 2005 Jul; 65(13):5638.

  Application: IF, IHC-P, IP, WB, Human, Human lung cancer, A549, LC319, PC-14, SAEC, SBC-5, SK-MES-1 cells

Pathway

- Aminoacyl-tRNA biosynthesis
- Metabolic pathways
- Porphyrin and chlorophyll metabolism

Disease

- Tobacco Use Disorder