

Product Datasheet

EPRS Antibody - BSA Free NBP1-84929

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-84929

EPRS Antibody - BSA Free

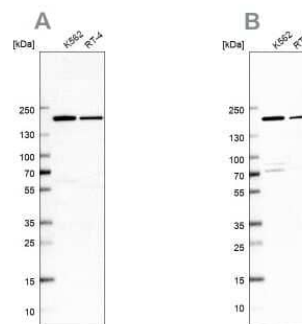
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	2058
Gene Symbol	EPRS1
Species	Human
Reactivity Notes	Mouse (88%), Rat (89%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DWYSQVITKSEMIEYHDISGCYILRPWAYAIWEAIKDFFDAAIEIKKLGVENCYFPM FVSQSALEKEKTHVADFAPEVAWVTRSGKTELA

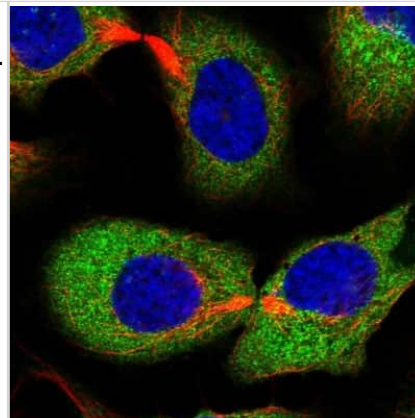
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

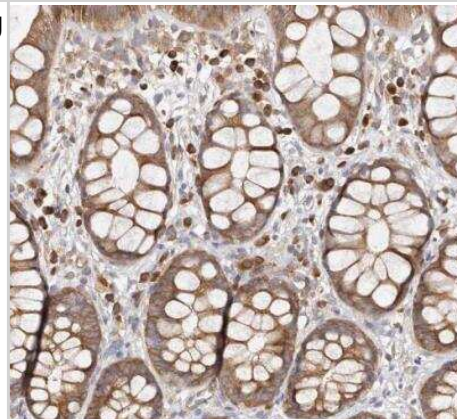
Western Blot: EPRS Antibody [NBP1-84929] - Analysis using Anti-EPRS antibody NBP1-84929 (A) shows similar pattern to independent antibody NBP1-84930 (B).



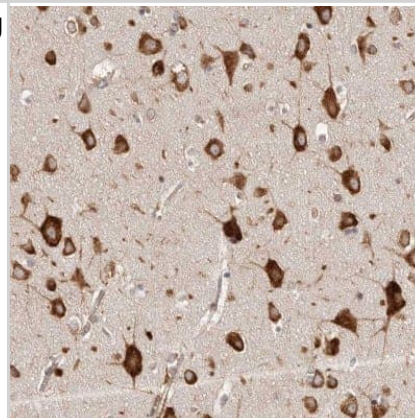
Immunocytochemistry/Immunofluorescence: EPRS Antibody [NBP1-84929] - Staining of human cell line U-2 OS shows localization to cytosol. Antibody staining is shown in green.



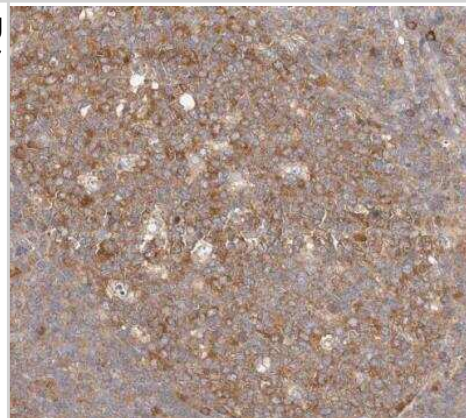
Immunohistochemistry-Paraffin: EPRS Antibody [NBP1-84929] - Staining of human rectum shows moderate cytoplasmic positivity in glandular cells.



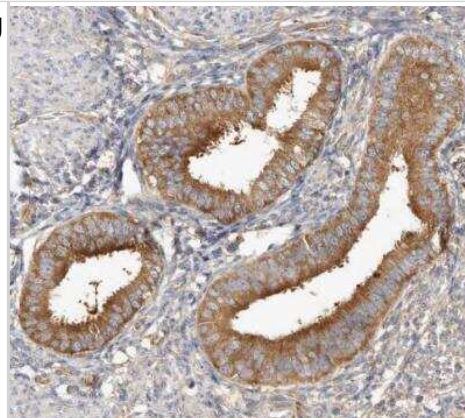
Immunohistochemistry-Paraffin: EPRS Antibody [NBP1-84929] - Staining of human cerebral cortex shows high expression.



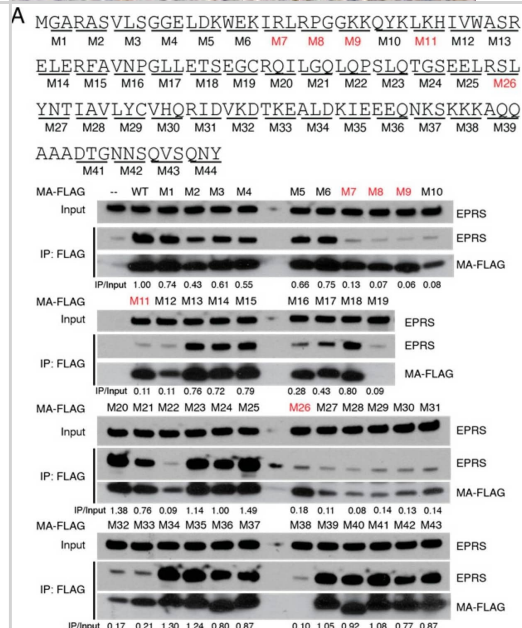
Immunohistochemistry-Paraffin: EPRS Antibody [NBP1-84929] - Staining of human tonsil shows moderate cytoplasmic positivity in germinal center cells.



Immunohistochemistry-Paraffin: EPRS Antibody [NBP1-84929] - Staining of human endometrium shows moderate cytoplasmic positivity in glandular cells.



Identification of MA residues critical for interaction with EPRS. (A) Alanine-scanning mutagenesis screen to identify interaction-ablative MA mutants. MA residues were mutated to alanine in groups of three. A total of 43 mutants were generated and tested for EPRS interaction via co-IP. Five mutants with robust MA expression but significantly reduced EPRS interaction are indicated with red boxes. EPRS IP/input ratio (normalized to WT) is labeled below each lane. Mutations of interest were selected based on two criteria: (1) low IP/input ratio; (2) MA-FLAG expression is comparable to WT. (B) Production of progeny virions by MA mutants as measured via luciferase activity in producer cells (top). Gag expression in producer cells and HIV-1 CA in supernatants as assessed by immunoblotting (bottom). The top of the bars represents mean value of 3 trials. (C) Relative infectivity of virion-containing supernatants measured by luciferase activity in target cells. The top of the bars represents mean value of 3 trials. (D) Critical interacting residues (orange) mapped onto a previously reported crystal structure of MA binding to PI(4,5)P2 (PDB: 2H3Z) [52]. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36851687>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



EPRS protein levels are not altered in cells infected with single-cycle HIV-1. (A) Immunoblot showing level of EPRS in HEK293T cells uninfected or infected with HIV-Luc/VSV-G with M.O.I. of 5. (B) Immunoblot showing level of EPRS in HuT/CCR5 cells uninfected or infected with HIV-Luc/VSV-G with MOI of 0.5 (+) or 2.5 (++) . Graph shows level of infectivity as measured by luciferase production. (C) Immunofluorescence imaging of Gag-GFP and EPRS expression in HeLa cells infected with HIV-Luc/VSV-G. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36851687>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Publications

Jin D, Wek SA, Kudlapur NT et al. Disease-associated mutations in a bifunctional aminoacyl-tRNA synthetase gene elicit the integrated stress response Journal of Biological Chemistry 2021-10-01 [PMID: 34537243]

Jin D, Zhu Y, Schubert HL et al. HIV-1 Gag Binds the Multi-Aminoacyl-tRNA Synthetase Complex via the EPRS Subunit Viruses 2023-02-08 [PMID: 36851687] (WB, Human)



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Products Related to NBP1-84929

NBP1-84929PEP	EPRS Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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