

Rabbit EEF2/Elongation factor 2 Polyclonal Antibody | anti-EEF2 antibody

Anti-EEF2/Elongation factor 2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19229	Rabbit	Human, Mouse, Rat, Monkey	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

EEF2/Elongation factor 2; Polyclonal Antibody; Anti-EEF2/Elongation factor 2 Antibody; EEF2; EF2; Elongation factor 2; EF-2; eukaryotic translation elongation factor 2; anti-EEF2 antibody

PRODUCT SPECIFICATIONS

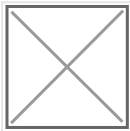
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for EEF2/Elongation factor 2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-EEF2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat, Monkey IHC-P: 2-5ug/ml Human, Mouse, Rat ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human
Immunogen	A synthetic peptide corresponding to a sequence of human EEF2/Elongation factor 2 (QTETVLRQAIAERIKPVLMMNKMDRALLELQLEPEELYQTFQR).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



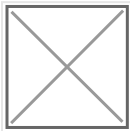
IHC (Immunohistochemistry)
Figure 13. IHC analysis of EEF2/Elongation factor 2 using anti-EEF2/Elongation factor 2 antibody (AAA19229).EEF2/Elongation factor 2 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-EEF2/Elongation factor 2 Antibody (AAA19229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 12. IHC analysis of EEF2/Elongation factor 2 using anti-EEF2/Elongation factor 2 antibody (AAA19229).EEF2/Elongation factor 2 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-EEF2/Elongation factor 2 Antibody (AAA19229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 11. IHC analysis of EEF2/Elongation factor 2 using anti-EEF2/Elongation factor 2 antibody (AAA19229).EEF2/Elongation factor 2 was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-EEF2/Elongation factor 2 Antibody (AAA19229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IF (Immunofluorescence)
Figure 10. IF analysis of EEF2/Elongation Factor 2 using anti-EEF2/Elongation Factor 2 antibody (AAA19229).EEF2/Elongation Factor 2 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-EEF2/Elongation Factor 2 Antibody (AAA19229) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



FCM (Flow Cytometry)
Figure 9. Flow Cytometry analysis of U937 cells using anti-EEF2/Elongation factor 2 antibody (AAA19229).Overlay histogram showing U937 cells stained with AAA19229 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EEF2/Elongation factor 2 Antibody (AAA19229, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)
Figure 8. IHC analysis of EEF2/Elongation factor 2 using anti-EEF2/Elongation factor 2 antibody (AAA19229).EEF2/Elongation factor 2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-EEF2/Elongation factor 2 Antibody (AAA19229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-EEF2 antibody	Eukaryotic elongation factor 2 is a protein that in humans is encoded by the EEF2 gene. This gene encodes a member of the GTP-binding translation elongation factor family. This protein is an essential factor for protein synthesis. It promotes the GTP-dependent translocation of the nascent protein chain from the A-site to the P-site of the ribosome. This protein is completely inactivated by EF-2 kinase phosphorylation.
References	1. Davydova, E., Ho, A. Y. Y., Malecki, J., Moen, A., Enserink, J. M., Jakobsson, M. E., Loenarz, C., Falnes, P. O. Identification and characterization of a novel evolutionarily conserved lysine-specific methyltransferase targeting eukaryotic translation elongation factor 2 (eEF2). J. Biol. Chem. 289: 30499-30510, 2014. 2. Hekman, K. E., Yu, G. -Y., Brown, C. D., Zhu, H., Du, X., Gervin, K., Undlien, D. E., Peterson, A., Stevanin, G., Clark, H. B., Pulst, S. M., Bird, T. D., White, K. P., Gomez, C. M. A conserved eEF2 coding variant in SCA26 leads to loss of translational fidelity and increased susceptibility to proteostatic insult. Hum. Molec. Genet. 21: 5472-5483, 2012. 3. Kaneda, Y., Hayes, H., Uchida, T., Yoshida, M. C., Okada, Y. Regional assignment of five genes on human chromosome 19. Chromosoma 95: 8-12, 1987.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503483
NCBI GeneID	1938
NCBI Accession #	NP_001952.1
NCBI GenBank Nucleotide #	NM_001961.3
UniProt Accession #	P13639; Q58J86; B2RMP5; D6W618
Molecular Weight	95,338 Da
NCBI Official Full Name	elongation factor 2
NCBI Official Synonym Full Names	eukaryotic translation elongation factor 2
NCBI Official Symbol	EEF2
NCBI Official Synonym Symbols	EF2; EF-2; EEF-2
NCBI Protein Information	elongation factor 2; polypeptidyl-tRNA translocase
UniProt Protein Name	Elongation factor 2
UniProt Gene Name	EEF2
UniProt Synonym Gene Names	EF2; EF-2
UniProt Entry Name	EF2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eef2-elongation-factor-2-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19229>