

Rabbit anti-Human, Mouse Cyclophilin E/PPIE Polyclonal Antibody | anti-PPIE antibody

Anti-Cyclophilin E/PPIE Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125797	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

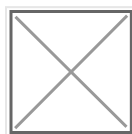
PRODUCT SYNONYMS

Cyclophilin E/PPIE; Polyclonal Antibody; Anti-Cyclophilin E/PPIE Antibody; PPIE; CYP33; Peptidyl-prolyl cis-trans isomerase E; PPIase E; Cyclophilin E; Cyclophilin-33; Rotamase E; peptidylprolyl isomerase E; anti-PPIE antibody

PRODUCT SPECIFICATIONS

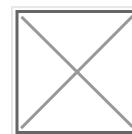
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Cyclophilin E/PPIE detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-PPIE antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Cyclophilin E/PPIE recombinant protein (Position: M1-V301).
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-Cyclophilin E/PPIE antibody (AAA125797). Overlay histogram showing THP-1 cells stained with AAA125797 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cyclophilin E/PPIE Antibody (AAA125797, 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.



IF (Immunofluorescence)

Figure 3. IF analysis of Cyclophilin E/PPIE using anti-Cyclophilin E/PPIE antibody (AAA125797). Cyclophilin E/PPIE was detected in immunocytochemical section of PC-3 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-Cyclophilin E/PPIE Antibody (AAA125797) 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.



IF (Immunofluorescence)

Figure 2. IF analysis of Cyclophilin E/PPIE using anti- Cyclophilin E/PPIE antibody (AAA125797).Cyclophilin E/PPIE 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- Cyclophilin E/PPIE Antibody (AAA125797) 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.



WB (Western Blot)

Figure 1. Western blot analysis of Cyclophilin E/PPIE using anti-Cyclophilin E/PPIE antibody (AAA125797).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HEK293 whole cell lysatesLane 2: human Hela whole cell lysatesLane 3: human K562 whole cell lysatesLane 4: human PC-3 whole cell lysatesLane 5: human CACO-2 whole cell lysatesLane 6: mouse HEPA1-6 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Cyclophilin E/PPIE antigen affinity purified polyclonal antibody (Catalog # AAA125797) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclophilin E/PPIE at approximately 35KD. The expected band size for Cyclophilin E/PPIE is at 35KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PPIE antibody	Peptidylprolyl isomerase E (cyclophilin E), also known as PPIE, is an enzyme which in humans is encoded by the PPIE gene on chromosome 1. The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein contains a highly conserved cyclophilin (CYP) domain as well as an RNA-binding domain. It was shown to possess PPIase and protein folding activities, and it also exhibits RNA-binding activity. Alternative splicing results in multiple transcript variants. A related pseudogene, which is also located on chromosome 1, has been identified.
References	1. Kim, J. -O., Nau, M. M., Allikian, K. A., Makela, T. P., Alitalo, K., Johnson, B. E., Kelley, M. J. Co-amplification of a novel cyclophilin-like gene (PPIE) with L-myc in small cell lung cancer cell lines. Oncogene 17: 1019-1026, 1998. 2. Mi, H., Kops, O., Zimmermann, E., Jaschke, A., Tropschug, M. A nuclear RNA-binding cyclophilin in human T cells. FEBS Lett. 398: 201-205, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	303305009
NCBI GeneID	10450
NCBI Accession #	NP_001181936.1
NCBI GenBank Nucleotide #	NM_001195007.1
UniProt Accession #	Q9UNP9; O43634; O43635; Q32Q72; Q3S611; Q5TGA0; Q5TGA2; Q5TGA3; Q9UIZ5; B2R971
Molecular Weight	34,991 Da
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase E isoform 4
NCBI Official Synonym Full Names	peptidylprolyl isomerase E (cyclophilin E)
NCBI Official Symbol	PPIE
NCBI Official Synonym Symbols	CYP33; CYP-33
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase E; PPIase E; cyclophilin-33; rotamase E
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase E
UniProt Gene Name	PPIE
UniProt Synonym Gene Names	CYP33; PPIase E
UniProt Entry Name	PPIE_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyclophilin-e-ppie-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125797>