

Rabbit Cyclophilin A Polyclonal Antibody | anti-PPIA antibody

Anti-Cyclophilin A Picoband Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19148	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins	Flow Cytometry, Functional Assay, Immunohistochemistry, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Cyclophilin A; Polyclonal Antibody; Anti-Cyclophilin A Picoband Antibody; Peptidyl-prolyl cis-trans isomerase A; PPIase A; 5.2.1.8; Cyclosporin A-binding protein; Rotamase A; N-terminally processed; PPIA; CYPA; anti-PPIA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	105
Applicable Applications for anti-PPIA antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Application Notes	Immunohistochemistry (Paraffin-embedded Section): 0.5-1mug/ml (By Heat) WB: 0.1-0.5mug/ml Immunohistochemistry (Frozen Section): 0.5-1mug/ml ICC: 0.5-1mug/ml
Immunogen	E Coli-derived human Cyclophilin A recombinant protein (Position: T116-E165). Human Cyclophilin A shares 98% and 95.9% amino acid (aa) sequence identity with mouse and rat Cyclophilin A, respectively.
Subcellular Localization	Cytoplasm. Secreted. Secretion occurs in response to oxidative stress in vascular smooth muscle through a vesicular secretory pathway that involves actin remodeling and myosin II activation, and mediates ERK1/2 activation.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.



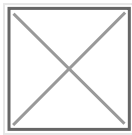
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of K562 cells using anti-PPIA antibody (AAA19148).Overlay histogram showing K562 cells stained with AAA19148 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPIA Antibody (AAA19148,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of U937 cells using anti-PPIA antibody (AAA19148).Overlay histogram showing U937 cells stained with AAA19148 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPIA Antibody (AAA19148,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of THP-1 cells using anti-PPIA antibody (AAA19148).Overlay histogram showing THP-1 cells stained with AAA19148 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPIA Antibody (AAA19148,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Cyclophilin A using anti- Cyclophilin A antibody (AAA19148).Cyclophilin A was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- Cyclophilin A Antibody (AAA19148) 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) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Cyclophilin A using anti- Cyclophilin A antibody (AAA19148).Cyclophilin A was detected in paraffin-embedded section of rat spleen tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- Cyclophilin A Antibody (AAA19148) 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) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Cyclophilin A using anti- Cyclophilin A antibody (AAA19148).Cyclophilin A was detected in paraffin-embedded section of mouse intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- Cyclophilin A Antibody (AAA19148) 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) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PPIA antibody	Description: Cyclophilin A (PPIA), Peptidylprolyl isomerase A, is an enzyme that in humans is encoded by the PPIA gene. Using chromosome 7 and chromosome 10 deletion hybrid panels, the PPIA coding gene is localized to 7p13-p11.2. This gene encodes a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. Cyclophilin A is also a member of the immunophilin class of proteins that all possess peptidyl-prolyl cis/trans isomerase activity and are believed to be involved in protein folding and/or intracellular protein transport. And Cyclophilin A binds to the Gag protein of human immunodeficiency virus type 1 (HIV-1). Additionally, Cyclophilin A may have an essential function in HIV-1 replication.may have an essential function in HIV-1 replication. Protein Function: PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.
Product Categories/Family for anti-PPIA antibody	Cell Biology; Other Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	665821274
NCBI GeneID	5478
NCBI Accession #	NP_001287910.1

NCBI GenBank Nucleotide #	NM_001300981.1
UniProt Accession #	P62937; P05092; Q3KQW3; Q567Q0; Q6IBU5; Q96IX3; Q9BRU4; Q9BTY9; Q9UC61; A8K220
Molecular Weight	18012 MW
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase A isoform 2
NCBI Official Synonym Full Names	peptidylprolyl isomerase A
NCBI Official Symbol	PPIA
NCBI Official Synonym Symbols	CYPA; CYPH; HEL-S-69p
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase A
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase A
UniProt Gene Name	PPIA
UniProt Synonym Gene Names	CYPA; PPIase A

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/cyclophilin-a-antibody-flow-cytometry-immunohistochemistry-immunocytochemistry-western-blot-elisa/19148>