

Cyclophilin B Polyclonal Antibody

| Product Details | |
|--------------------|--|
| Size | 100 µg |
| Species Reactivity | Dog, Human, Mouse, Rat |
| Published Species | Rat, Fruit fly, Human, Mouse, Guinea pig |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | Synthetic peptide corresponding to residues C(194) G K I E V E K P F A I A K E(208) of human CyPB. |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Antigen affinity chromatography |
| Storage buffer | PBS with 1mg/mL BSA |
| Contains | 0.05% sodium azide |
| Storage conditions | -20° C, Avoid Freeze/Thaw Cycles |
| RRID | AB_2169138 |

| Applications | Tested Dilution | Publications |
|---|--------------------------------|-----------------|
| Western Blot (WB) | 1-2 µg/mL | 40 Publications |
| Immunohistochemistry (IHC) | - | 2 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:50-1:500 | - |
| Immunocytochemistry (ICC/IF) | 1:100-1:1,000 | - |
| Flow Cytometry (Flow) | 3-5 µg/1x10 ⁶ cells | - |
| Immunoprecipitation (IP) | - | 1 Publication |

Product Specific Information

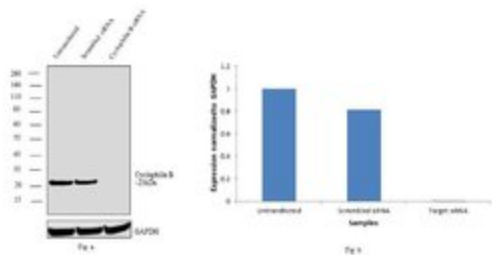
PA1-027A detects cyclophilin B (CyPB) in mouse, rat, canine, and human tissues.

PA1-027A has been successfully used in Western blot procedures, IF/ICC and IHC (P). By Western blot, this antibody detects a ~19 kDa protein representing CyPB from rat liver extract.

The PA1-027A immunogen is a synthetic peptide corresponding to residues C(194) G K I E V E K P F A I A K E(208) of human CyPB. This sequence is almost completely conserved between human, mouse, rat, bovine, and chicken. PA1-027A immunizing peptide (Cat. # PEP-058) is available for use in neutralization and control experiments.

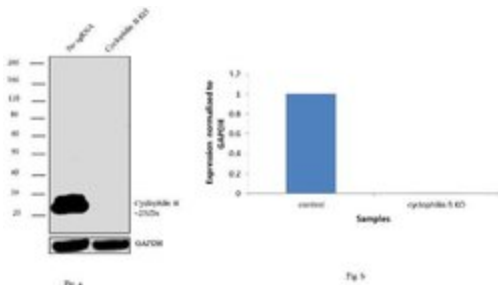
Cyclophilin B Antibody (PA1-027A)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. U-87 MG cells were transfected with Cyclophilin B siRNA and loss of signal was observed in Western Blot using Anti-Cyclophilin B monoclonal Antibody (Product # PA1-027A). Knockdown validation info.



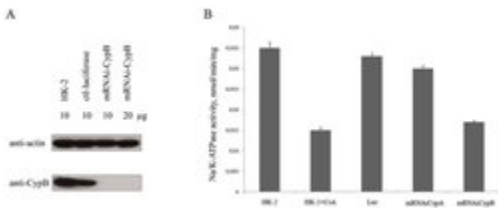
Cyclophilin B Antibody (PA1-027A)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in Cyclophilin B knockout (KO) cell line compared to control cell line using anti-Cyclophilin B Rabbit Polyclonal antibody (Product # PA1-027A). Knockout validation info.



Cyclophilin B Antibody (PA1-027A)

Figure 4 Na/K-ATPase activity decreases in CypB silenced human kidney cells (HK-2). A: HK-2 cells were silenced for CypB using microRNA-based shRNA lentiviral vectors (mRNAi-CypB). Interference of the luciferase gene was used as control (ctl-luciferase). Western blot assays show a complete lack of CypB in CypB silenced cells, even at saturating protein concentrations from cell lysates (20 ug). B: Na/K-ATPase activity decreases in silenced CypB cells in a similar manner than 10 uM CsA treatment for 24 h does in HK-2 cells. Luciferase silenced HK-2 cells were used as a control. CypA silencing in HK-2 cells does not have any effect on activity (not shown). Figures are representative of at least three independent experiments. Knockdown validation info.



View more figures on thermofisher.com

Western Blot (40)

Cell discovery

Structure of the full-length human Pannexin1 channel and insights into its role in pyroptosis.

"PA1-027A was used in Western Blotting to show that in human macrophages PANX1 expression is upregulated by diverse stimuli that promote pyroptosis, which is reminiscent of the previously reported lipopolysaccharide-induced upregulation of PANX1 during inflammasome activation."

Authors: Zhang S,Yuan B,Lam JH,Zhou J,Zhou X,Ramos-Mandujano G,Tian X,Liu Y,Han R,Li Y,Gao X,Li M,Yang M

Species
Human

Dilution
1:2000

Year
2021

American journal of cancer research

Ubiquitin-specific peptidase 2a (USP2a) deubiquitinates and stabilizes -catenin.

"Published figure using Cyclophilin B polyclonal antibody (Product # PA1-027A) in Western Blot"

Authors: Kim J,Alavi Naini F,Sun Y,Ma L

Species
Human

Dilution
1:5000

Year
2020

[View more WB references on thermofisher.com](#)

Immunohistochemistry (2)

Arthritis and rheumatism

High binding capacity of cyclophilin B to chondrocyte heparan sulfate proteoglycans and its release from the cell surface by matrix metalloproteinases: possible role as a proinflammatory mediator in arthritis.

"PA1-027A was used in immunohistochemistry to study cyclophilin B in chondrocyte pathology"

Authors: De Ceuninck F,Allain F,Caliez A,Spik G,Vanhoutte PM

Species
Guinea pig

Dilution
1:50

Year
2003

Matrix biology : journal of the International Society for Matrix Biology

Selective intracellular retention of extracellular matrix proteins and chaperones associated with pseudoachondroplasia.

"PA1-027A was used in immunohistochemistry to study the mechanism for the cytoplasmic accumulation of extracellular matrix proteins and chaperones associated in pseudoachondroplasia"

Authors: Vranka J,Mokashi A,Keene DR,Tufa S,Corson G,Sussman M,Horton WA,Maddox K,Sakai L,Bächinger HP

Species
Human

Dilution
Not Cited

Year
2001

More applications with references on thermofisher.com

IP (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.