

# FKBP4 Polyclonal Antibody

Product Details	
Size	100 µg
Species	Human, Mouse, Non-human primate, Rabbit
Published Species	Rat, Non-human primate, Mouse
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C(441) K D E R N D V A G S Q S Q V E T E A(458) of rabbit Heat Shock Protein 56.
Form	Lyophilized
Purification	Antigen affinity chromatography
Contains	no preservative
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325971

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:100	-
Immunofluorescence (IF)	1:100	-
Western Blot (WB)	1:1000	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunohistochemistry (IHC)	-	2 Publications

## Product Specific Information

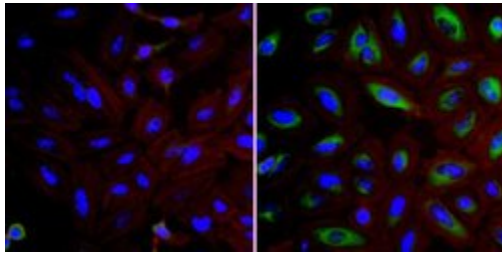
PA3-020 detects heat shock protein 56 (HSP56), also known as FKBP4/FKBP52, from human, monkey, mouse and rabbit tissues.

PA3-020 has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects a prominent ~52 kDa band representing HSP56 HeLa cell lysate.

The PA3-020 immunogen is a synthetic peptide corresponding to residues C(441) K D E R N D V A G S Q S Q V E T E A(458) of rabbit Heat Shock Protein 56.

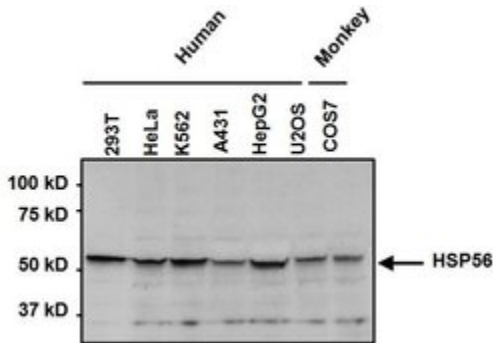
Reconstitute with PBS.

## Product Images For FKBP4 Polyclonal Antibody



### FKBP4 Antibody (PA3-020) in IF

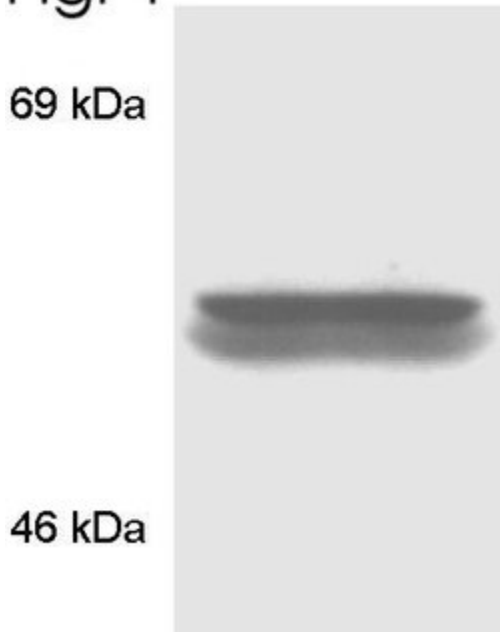
Immunofluorescent analysis of Heat Shock protein 56 (HSP56, green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed without (left panel) or with (right panel) a HSP56 polyclonal antibody (Product # PA3-020) at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat anti-rabbit IgG secondary antibody (Product # 35552) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on Thermo Scientific ArrayScan or ToxInsight Instrument at 20X magnification.



### FKBP4 Antibody (PA3-020) in WB

Western blot analysis of Heat Shock Protein 56 (HSP56) was performed by loading 50 µg of the indicated whole cell lysates per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a HSP56 polyclonal antibody (Product # PA3-020) at a dilution of 1:1000 overnight at 4°C on a rocking platform, washed in TBS-0.1% Tween 20, and probed with a goat anti-rabbit IgG-HRP secondary antibody (Product # 31460) at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).

Fig. 1



### FKBP4 Antibody (PA3-020) in WB

Western blot detection of Hsp56 on human cell line S49 cytosol using Product # PA3-020.

View more figures on [thermofisher.com](https://www.thermofisher.com)

## 5 References

### Western Blot (2)

Molecular endocrinology (Baltimore, Md.)

#### FK506-binding protein 52 is essential to uterine reproductive physiology controlled by the progesterone receptor A isoform.

"PA3-020 was used in western blot to study the role of FKBP52 in progesterone receptor action."

Authors: Yang Z,Wolf IM,Chen H,Periyasamy S,Chen Z,Yong W,Shi S,Zhao W,Xu J,Srivastava A,Sánchez ER,Shou W

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2006

Molecular and cellular biology

#### Progesterone receptor structure and function altered by geldanamycin, an hsp90-binding agent.

"PA3-020 was used in western blot to investigate the assembly pathway of progesterone receptor complexes"

Authors: Smith DF,Whitesell L,Nair SC,Chen S,Prapapanich V,Rimerman RA

**Species**  
Non-human primate

**Dilution**  
Not Cited

**Year**  
1995

### Immunohistochemistry (2)

Journal of neuroscience research

#### Protection against ischemic brain damage in rats by immunophilin ligand GPI-1046.

"Published figure using FKBP4 polyclonal antibody (Product # PA3-020) in Immunohistochemistry (Frozen)"

Authors: Li F,Omori N,Hayashi T,Jin G,Sato K,Nagano I,Shoji M,Abe K

**Species**  
Rat  
Not Applicable

**Dilution**  
1:100  
Not Cited

**Year**  
2004

Brain research

#### Early decrease of the immunophilin FKBP 52 in the spinal cord of a transgenic model for amyotrophic lateral sclerosis.

"PA3-020 was used in immunohistochemistry to investigate the effect of the downregulation of FKBP-52 on the pathogenesis of amyotrophic lateral sclerosis"

Authors: Manabe Y,Warita H,Murakami T,Shiote M,Hayashi T,Omori N,Nagano I,Shoji M,Abe K

**Species**  
Mouse

**Dilution**  
1:1000

**Year**  
2002

### More applications with references on thermofisher.com

### IHC (F) (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.