PKR Recombinant Rabbit Monoclonal Antibody (23H52L96)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Hamster
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	23H52L96
Conjugate	Unconjugated
Immunogen	A recombinant protein corresponding to amino acids 54-158.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532313

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-3 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-

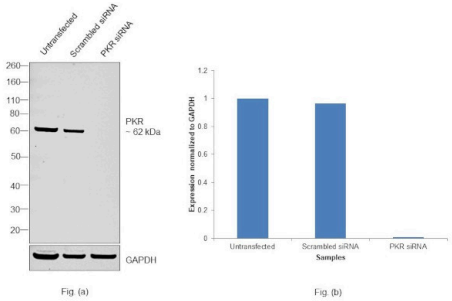
Product Specific Information

This antibody is predicted to react with Rhesus monkey based on sequence homology.

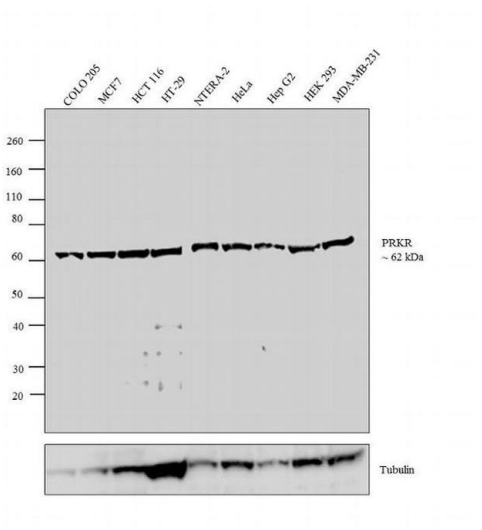
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

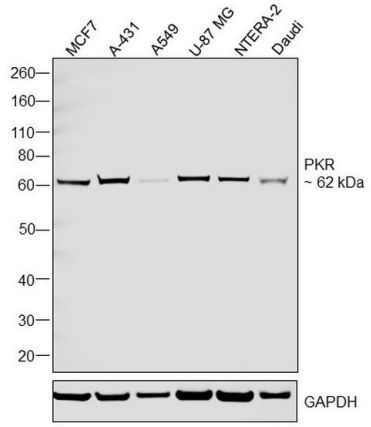
Product Images For PKR Recombinant Rabbit Monoclonal Antibody (23H52L96)



PKR Antibody (700286)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with Interferon-induced, double-stranded RNA-activated protein kinase siRNA and decrease in signal intensity was observed in Western Blot application using Anti-PKR Recombinant Rabbit Monoclonal Antibody (23H52L96) (Product # 700286). {KD}



PKR Antibody (700286) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of COLO 205 (Lane 1), MCF7 (Lane 2), HCT 116 (Lane 3), HT-29 (Lane 4), NTERA-2 (Lane 5), HeLa (Lane 6), Hep G2 (Lane 7), HEK 293 (Lane 8) and MDA-MB-231 (Lane 9). The blot was probed with Anti-PRKR Rabbit Monoclonal Antibody (Product # 700286, 1-3 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 62 kDa band corresponding to PRKR was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody using iBind™ Flex Western Starter Kit (Product # SLF2000S). Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



PKR Antibody (700286) in WB
Western Blot was performed using Anti-PKR Recombinant Rabbit Monoclonal Antibody (23H52L96) (Product # 700286) and a 62 kDa band corresponding to Interferon-induced, double-stranded RNA-activated protein kinase was observed across tested samples. Whole cell extracts (40 µg lysate) of MCF7 (Lane 1), A-431 (Lane 2), A549 (Lane 3), U-87 MG (Lane 4), NTERA-2 cl.D1 (Lane 5), Daudi (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.5 µg/mL concentration) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:20000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).

View more figures on thermofisher.com

2 References

Western Blot (2)

Journal of virology

Opposing Roles of Double-Stranded RNA Effector Pathways and Viral Defense Proteins Revealed with CRISPR-Cas9 Knockout Cell Lines and Vaccinia Virus Mutants.

"700286 was used in western blot to utilize CRISPR/Cas9 knock-out cell lines and vaccinia virus mutants to elucidate opposing roles of double-stranded RNA effector pathways and viral defense proteins"

Authors: Liu R,Moss B

Year
2016

Species
Hamster

The protein journal

Post-translational Regulation of Hexokinase Function and Protein Stability in the Aestivating Frog Xenopus laevis.

"700286 was used in western blot to utilize an Aestivating Frog Xenopus laevis model to study post-translation regulation of hexokinase function and protein stability"

Authors: Childers CL,Storey KB

Year
2016