

# PKLR Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PKLR (522-552aa EAIWADDVDRRVQFGIESGKLRGFLRVGDLV).
Form	Lyophilized
Concentration	500 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5mg BSA
Contains	0.05mg sodium azide
Storage conditions	-20°C
RRID	AB_2746939

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	0.5-1 µg/mL	-

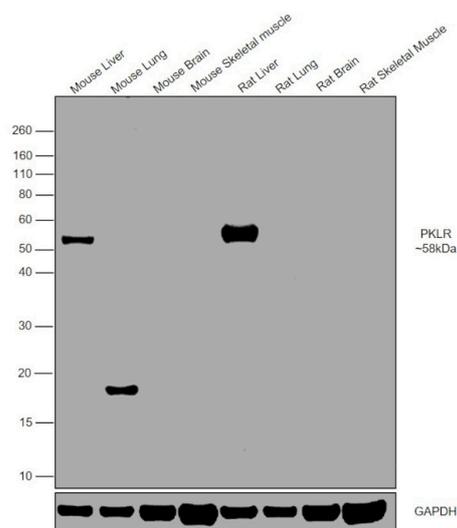
## Product Specific Information

Reconstitute with 0.2 mL of distilled water to yield a concentration of 500 µg/mL.

## Product Images For PKLR Polyclonal Antibody

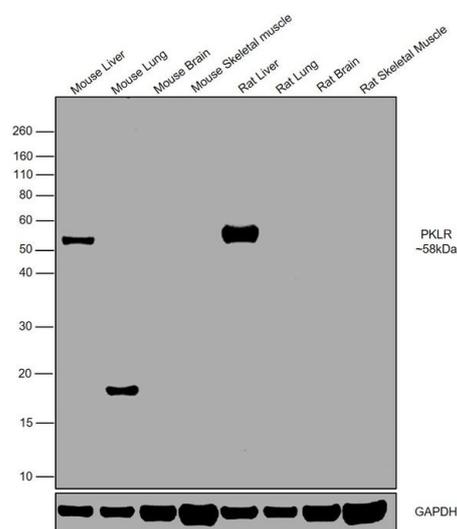
### PKLR Antibody (PA5-79824)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues owing to their inherent genetic constitution. Relative expression of PKLR was observed in Mouse Liver and Rat Liver when compared to Mouse Lung, Mouse Brain, Mouse Skeletal muscle, Rat Lung, Rat Brain and Rat Skeletal muscle using PKLR Polyclonal Antibody (Product # PA5-79824) in western blot. {RE}



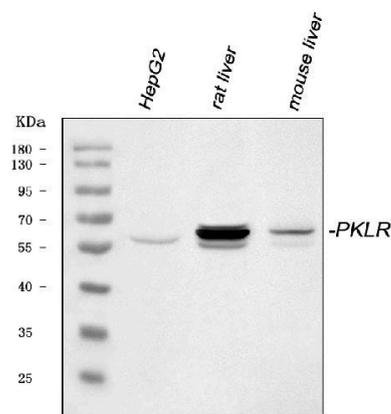
### PKLR Antibody (PA5-79824) in WB

Western blot was performed using Anti-PKLR Polyclonal Antibody (Product # PA5-79824) and a 58kDa band corresponding to PKLR was observed in Mouse Liver and Rat Liver, but not in the other tissue models which are reported to be negative for PKLR expression. Whole cell lysate (30ug lysate) of Mouse Liver (Lane 1), Mouse Lung (Lane 2), Mouse Brain (Lane 3), Mouse Skeletal muscle (Lane 4), Rat Liver (Lane 5), Rat Lung (Lane 6), Rat Brain (Lane 7), and Rat Skeletal muscle (Lane 8) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). 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) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



### PKLR Antibody (PA5-79824) in WB

Western blot analysis of PKLR in, Lane 1: human HepG2 whole cell lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse liver tissue lysates. 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 30 µg of sample under reducing conditions. After Electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. The membrane was blocked with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with PKLR Polyclonal Antibody (Product # PA5-79824) at 0.5 g/mL overnight at 4°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 1:5,000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit. A specific band was detected for PKLR at approximately 62 kDa. The expected band size for PKLR is at 62 kDa.



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## Western Blot (1)

Cellular and molecular gastroenterology and hepatology

### Liver Pyruvate Kinase Promotes NAFLD/NASH in Both Mice and Humans in a Sex-Specific Manner.

"PA5-79824 was used in Western Blotting to investigate the role of one of these, liver pyruvate kinase (L-PK or Pk1r), in NAFLD by using patient samples and mouse models."

Authors: Chella Krishnan K, Floyd RR, Sabir S, Jayasekera DW, Leon-Mimila PV, Jones AE, Cortez AA, Shrivah V, Péterfy M, Stiles L, Canizales-Quinteros S, Divakaruni AS, Huertas-Vazquez A, Lusic AJ

Year  
2021

Species  
Mouse

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