

PKR Rabbit mAb

Catalog No: #52075

Package Size: #52075-1 50ul #52075-2 100ul

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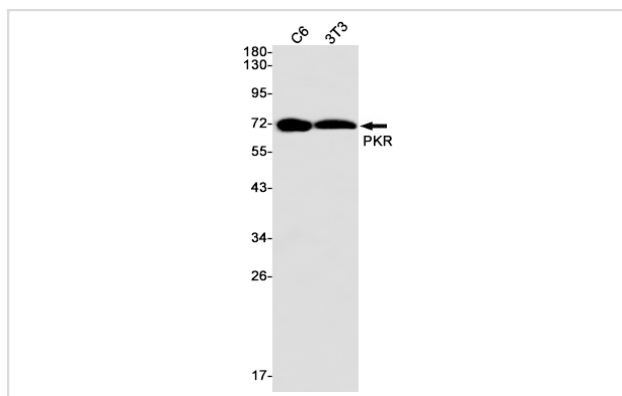
Description

Product Name	PKR Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S04-3F2
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant protein of mouse PKR
Conjugates	Unconjugated
Modification	Unmodification
Other Names	PKR; PRKR; EIF2AK1; PPP1R83
Accession No.	Swiss-Prot:Q03963GeneID:19106
Uniprot	Q03963
GeneID	19106
Calculated MW	Calculated MW: 62 kDa; Observed MW: 74 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000;

Images



Western blot detection of PKR in C6,3T3 cell lysates using PKR Rabbit mAb(1:1000 diluted).Predicted band size:62kDa.Observed band size:74kDa.

Background

IFN-induced dsRNA-dependent serine/threonine-protein kinase that phosphorylates the alpha subunit of eukaryotic translation initiation factor 2 (EIF2S1/eIF-2-alpha) and plays a key role in the innate immune response to viral infection (PubMed:20038207, PubMed:20478537, PubMed:21123651).

Inhibits viral replication via the integrated stress response (ISR): EIF2S1/eIF-2-alpha phosphorylation in response to viral infection converts EIF2S1/eIF-2-alpha in a global protein synthesis inhibitor, resulting to a shutdown of cellular and viral protein synthesis, while concomitantly initiating the preferential translation of ISR-specific mRNAs, such as the transcriptional activator ATF4 (PubMed:21123651, PubMed:20631127).

Note: This product is for in vitro research use only