

Anti-Phospho-PKR (T451) Antibody [JE46-70]

HA722067



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 62 kDa
Clone number:	JE46-70

Description: Protein kinase RNA-activated also known as protein kinase R (PKR), interferon-induced, double-stranded RNA-activated protein kinase, or eukaryotic translation initiation factor 2-alpha kinase 2 (EIF2AK2) is an enzyme that in humans is encoded by the EIF2AK2 gene on chromosome 2. PKR is a serine/tyrosine kinase that is 551 amino acids long. PKR is inducible by various mechanisms of stress and protects against viral infections. It also has a role in several signaling pathways.

Immunogen: Synthetic peptide corresponding to residues surrounding Thr45 of human PKR protein.

Positive control: HeLa treated with 10ng/mL IFN- α 1 for 18 hours then 100nM Calyculin A for 15 minutes cell lysate, HeLa cells treated with 10ng/mL IFN- α 1 for 18 hours then add 100nM Calyculin A for 15 minutes.

Subcellular location: Cytoplasm, Nucleus, perinuclear region.

Database links: SwissProt: P19525 Human

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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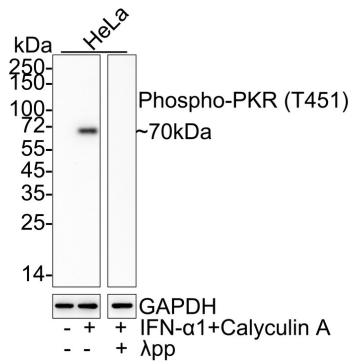
Images

Fig1: Western blot analysis of Phospho-PKR (T451) on different lysates with Rabbit anti-Phospho-PKR (T451) antibody (HA722067) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 10ng/mL IFN- α 1 for 18 hours then 100nM Calyculin A for 15 minutes cell lysate

Lane 3: HeLa treated with 10ng/mL IFN- α 1 for 18 hours then 100nM Calyculin A for 15 minutes cell lysate, then the membrane treated with λ pp for 1 hour



Lysates/proteins at 20 μ g/Lane.

Predicted band size: 62 kDa

Observed band size: 70 kDa

Exposure time: 3 minutes 5 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722067) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Liu CX et al. RNA circles with minimized immunogenicity as potent PKR inhibitors. Mol Cell. 2022 Jan
2. Cesaro T et al. Inhibition of PKR by Viruses. Front Microbiol. 2021 Oct

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