Phospho-PKR(Phospho T451)(11P5) Rabbit Monoclonal Antibody

产品详情

产品货号	产品名称	储存条件	保质期
IM37152	Phospho-PKR(Phospho T451)(11P5)Rabbit Monoclonal Antibody	-20℃	1 年

产品概述：

产品货号	IM37152
别名	EIF2AK1;EIF2AK2;p68 kinase;PKR;PPP1R83;PRKR;Protein kinase RNA activated.
产品名称	Phospho-PKR(Phospho T451)(11P5)Rabbit Monoclonal Antibody
纯度	Affinity-chromatography
类别	抗体产品
基因名称	EIF2AK2
蛋白名称	PKR,PRKR
推荐应用	WB
反应种属	Human
存储缓冲液	Supplied in 50mM Tris-Glycine(pH 7.4),0.15M NaCl,40%Glycerol,0.01% New type preservative N and 0.05% BSA.
Human Gene ID	5610
Human Swissprot No.	P19525

免疫原	A synthetic phosphopeptide corresponding to residues surrounding Thr451 of human PKR
稀释度	WB 1:1000
参考分子量	74kDa
预测分子量	62kDa
运输及保存条件	Biological ice bag transportation.Store at -20℃ for at least 12 months(Do not lower than 25℃).Avoid freeze/thaw cycles.
宿主	Rabbit
同种型	IgG
注意事项	Phospho-Phospho-PKR(T451)Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
组织表达	Highly expressed in thymus,spleen and bone marrow compared to non-hematopoietic tissues such as small intestine,liver,or kidney tissues.Colocalizes with GSK3B and TAU in the Alzheimer disease(AD) brain.Elevated levels seen in breast and colon carcinomas,and which correlates with tumor progression and invasiveness or risk of progression.
细胞定位	Cytoplasm.Nucleus.Cytoplasm,perinuclear region.Note=Nuclear localization is elevated in acute leukemia,myelodysplastic syndrome (MDS),melanoma,breast,colon,prostate and lung cancer patient samples or cell lines as well as neurocytes from advanced Creutzfeldt-Jakob disease patients.
功能	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:18835251,PubMed:

功能	19507191,PubMed:19189853,PubMed:21123651,PubMed:21072047, PubMed:22948139,PubMed:23229543,PubMed:22381929).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:19189853,PubMed:21123651,PubMed:22948139,PubMed: 23229543).Exerts its antiviral activity on a wide range of DNA and RNA viruses including hepatitis C virus(HCV),hepatitis B virus (HBV),measles virus(MV)and herpes simplex virus 1(HHV-1)(PubMed: 11836380,PubMed:19189853,PubMed:20171114,PubMed:19840259,PubMed: 21710204,PubMed:23115276,PubMed:23399035).Also involved in the regulation of signal transduction,apoptosis,cell proliferation and differentiation:phosphorylates other substrates including p53/TP53,PPP2R5A,DHX9,ILF3,IRS1 and the HHV-1 viral protein US11 (PubMed:11836380,PubMed:22214662,PubMed:19229320).In addition to serine/threonine protein kinase activity,also has tyrosine-protein kinase activity and phosphorylates CDK1 at 'Tyr-4'upon DNA damage, facilitating its ubiquitination and proteosomal degradation (PubMed:20395957).Either as an adapter protein and/or via its kinase activity,can regulate various signaling pathways(p38 MAP kinase, NF-kappa-B and insulin signaling pathways)and transcription factors (JUN,STAT1,STAT3,IRF1,ATF3)involved in the expression of genes encoding proinflammatory cytokines and IFNs(PubMed:22948139, PubMed:23084476,PubMed:23372823).Activates the NF kappa-B pathway via interaction with IKBKB and TRAF family of proteins and activates the p38 MAP kinase pathway via interaction with MAP2K6(PubMed:

功能	10848580,PubMed:15121867,PubMed:15229216).Can act as both a positive and negative regulator of the insulin signaling pathway (ISP)(PubMed:20685959).Negatively regulates ISP by inducing the inhibitory phosphorylation of insulin receptor substrate 1(IRS1)at 'Ser-312'and positively regulates ISP via phosphorylation of PPP2R5A which activates FOXO1,which in turn up-regulates the expression of insulin receptor substrate 2(IRS2)(PubMed:20685959). Can regulate NLRP3 inflammasome assembly and the activation of NLRP3, NLRP1,AIM2 and NLRC4 inflammasomes(PubMed:22801494).Plays a role in the regulation of the cytoskeleton by binding to gelsolin(GSN), sequestering the protein in an inactive conformation away from actin (By similarity).
Clonality	Monoclonal

注意事项：

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