Chk1(Phospho S280)(9M10) Rabbit Monoclonal Antibody

产品详情

产品货号	产品名称	储存条件	保质期
IM37066	Chk1(Phospho S280)(9M10)Rabbit Monoclonal Antibody	-20℃	1 年

产品概述：

产品货号	IM37066
别名	Checkpoint kinase 1;Chek1;Chk1;rad27
产品名称	Chk1(Phospho S280)(9M10)Rabbit Monoclonal Antibody
纯度	Affinity-chromatography
类别	抗体产品
基因名称	CHEK1
蛋白名称	CHK1
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	1111
Human Swissprot No.	O14757
免疫原	A synthetic phosphopeptide corresponding to residues surrounding Ser280 of human Chk1.

稀释度	WB 1:1000-1:5000
参考分子量	54kDa
预测分子量	54kDa
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-Chk1(S280)Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
组织表达	Expressed ubiquitously with the most abundant expression in thymus, testis,small intestine and colon.
细胞定位	Nucleus.Chromosome.Cytoplasm Cytoplasm,cytoskeleton,microtubule organizing center,centrosome.Note=Nuclear export is mediated at least in part by XPO1/CRM1(PubMed:12676962).Also localizes to the centrosome specifically during interphase,where it may protect centrosomal CDC2 kinase from inappropriate activation by cytoplasmic CDC25B(PubMed:15311285).Proteolytic cleavage at the C-terminus by SPRTN promotes removal from chromatin(PubMed:31316063).
功能	Serine/threonine-protein kinase which is required for checkpoint-mediated cell cycle arrest and activation of DNA repair in response to the presence of DNA damage or unreplicated DNA(PubMed:11535615, PubMed:12446774,PubMed:12399544,PubMed:14559997,PubMed:14988723, PubMed:15311285,PubMed:15665856,PubMed:15650047,PubMed:32357935) .May also negatively regulate cell cycle progression during unperturbed cell cycles(PubMed:11535615,PubMed:12446774,PubMed: 12399544,PubMed:14559997,PubMed:14988723,PubMed:15311285,PubMed:

功能	15665856,PubMed:15650047).This regulation is achieved by a number of mechanisms that together help to preserve the integrity of the genome(PubMed:11535615,PubMed:12446774,PubMed:12399544,PubMed:14559997,PubMed:14988723,PubMed:15311285,PubMed:15665856,PubMed:15650047).Recognizes the substrate consensus sequence[R-X-X- S/T](PubMed:11535615,PubMed:12446774,PubMed:12399544,PubMed:14559997,PubMed:14988723,PubMed:15311285,PubMed:15665856,PubMed:15650047).Binds to and phosphorylates CDC25A,CDC25B and CDC25C(PubMed:9278511,PubMed:12676583,PubMed:14681206,PubMed:12676925,PubMed:12759351,PubMed:19734889,PubMed:14559997).Phosphorylation of CDC25A at 'Ser 178' and 'Thr-507' and phosphorylation of CDC25C at 'Ser-216' creates binding sites for 14-3-3 proteins which inhibit CDC25A and CDC25C(PubMed:9278511).Phosphorylation of CDC25A at 'Ser-76', 'Ser-124', 'Ser-178', 'Ser-279' and 'Ser-293' promotes proteolysis of CDC25A(PubMed:9278511,PubMed:12676583,PubMed:14681206,PubMed:12676925,PubMed:12759351,PubMed:19734889).Phosphorylation of CDC25A at 'Ser-76' primes the protein for subsequent phosphorylation at 'Ser-79', 'Ser-82' and 'Ser-88' by NEK11,which is required for polyubiquitination and degradation of CDCD25A (PubMed:9278511,PubMed:19734889,PubMed:20090422).Inhibition of CDC25 leads to increased inhibitory tyrosine phosphorylation of CDK-cyclin complexes and blocks cell cycle progression (PubMed:9278511).Also phosphorylates NEK6(PubMed:18728393).Binds to and phosphorylates RAD51 at 'Thr-309',which promotes the release of RAD51 from BRCA2 and enhances the association of RAD51 with chromatin,thereby promoting DNA repair by homologous recombination (PubMed:15665856).Phosphorylates multiple sites within the C-terminus of TP53,which promotes activation of TP53 by acetylation and promotes cell cycle arrest and suppression of cellular

功能	proliferation(PubMed:10673501,PubMed:15659650,PubMed:16511572). Also promotes repair of DNA cross-links through phosphorylation of FANCE(PubMed:17296736).Binds to and phosphorylates TLK1 at 'Ser-743',which prevents the TLK1 dependent phosphorylation of the chromatin assembly factor ASF1A(PubMed:12660173,PubMed:12955071). This may enhance chromatin assembly both in the presence or absence of DNA damage(PubMed:12660173,PubMed:12955071).May also play a role in replication fork maintenance through regulation of PCNA (PubMed:18451105).May regulate the transcription of genes that regulate cell-cycle progression through the phosphorylation of histones(By similarity).Phosphorylates histone H3.1(to form H3T11ph),which leads to epigenetic inhibition of a subset of genes (By similarity).May also phosphorylate RB1 to promote its interaction with the E2F family of transcription factors and subsequent cell cycle arrest(PubMed:17380128).Phosphorylates SPRTN,promoting SPRTN recruitment to chromatin(PubMed:31316063). Reduces replication stress and activates the G2/M checkpoint,by phosphorylating and inactivating PABIR1/FAM122A and promoting the serine/threonine-protein phosphatase 2A-mediated dephosphorylation and stabilization of WEE1 levels and activity(PubMed:33108758).
Clonality	Monoclonal

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品牌	货号	名称
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英普特	IM10180	彩色预染标准分子量蛋白 Marker(10-180KD)(三色)
英普特	IM35371	DDX58(15B14)Rabbit Monoclonal Antibody
英普特	IM34126	Caveolin-1(16G7)Rabbit Monoclonal Antibody
英普特	IM36924	AER61(11Q1)Rabbit Monoclonal Antibody
英普特	IM38639	GLS Rabbit Polyclonal Antibody(C-Term)
英普特	IM54582	NET-5 Rabbit Polyclonal Antibody
英普特	IM33108	Ubiquitin K63(17N13)Rabbit Monoclonal Antibody

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