

# Post-Translational Modifications

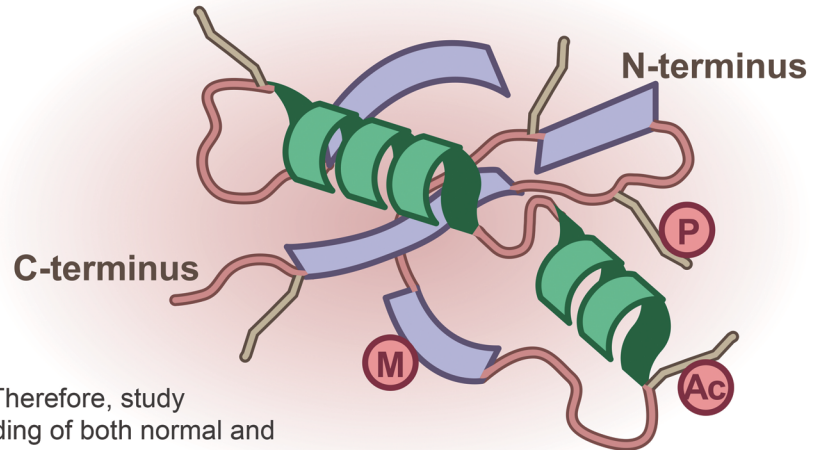
Your Expertise

Our Antibodies

Accelerated Discovery

[www.genetex.com](http://www.genetex.com)

Protein post-translational modification (PTM) includes the modification of proteins through covalent addition of particular moieties, such as phosphate, acetyl, and methyl groups. As PTMs are often reversible, the functional flexibility of the proteome can be expanded and controlled in a temporal and cell type-specific manner to precisely contour signal transduction and gene expression in response to various stimuli. Therefore, study of PTM biology is crucial for the understanding of both normal and pathological physiology.

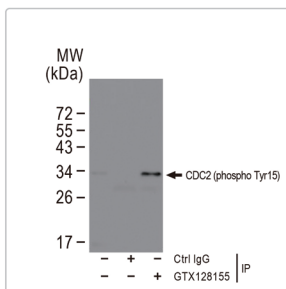


## Antibodies for PTM Research

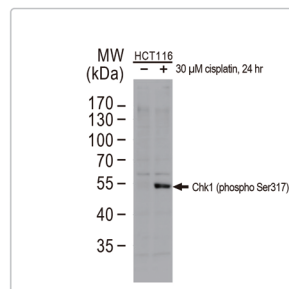
- ◆ Highly sensitive and specific
- ◆ Stringent validation
- ◆ Key target selection
- ◆ Sample package available

## Cell Biology

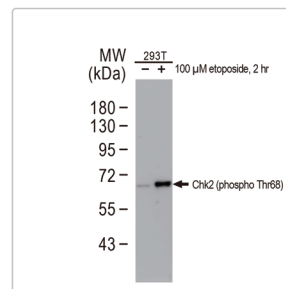
 Citation Support


 KO/KD Validated


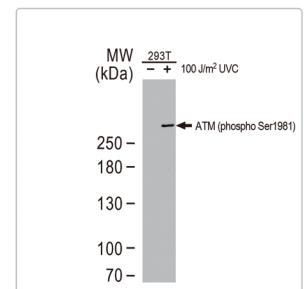
CDC2 (pTyr15) antibody  
(GTX128155) 




Chk1 (pSer317) antibody  
(GTX132170)

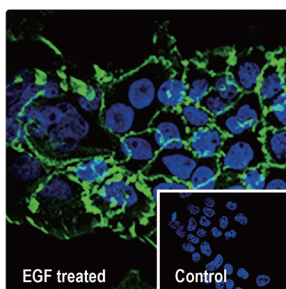


Chk2 (pThr68) antibody  
(GTX132204) 

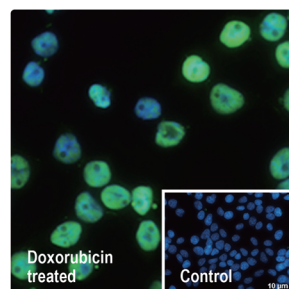


ATM (pSer1981) antibody  
(GTX132146) 

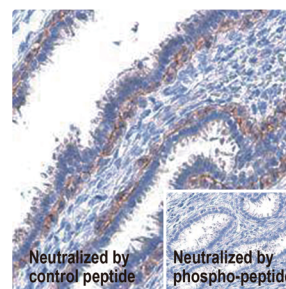
## Cancer Research



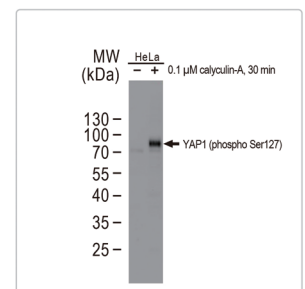
EGFR (pTyr1068)  
antibody (GTX132810)



p53 (pSer15) antibody  
(GTX132995)



Her2 / ErbB2 (pTyr1221/  
Tyr1222) antibody  
(GTX133445)



YAP1 (pSer127) antibody  
(GTX130424)

# Cell Signaling

Citation Support

KO/KD Validated

## AKT-mTOR Signaling

Cat. No.	Product Name	Reactivity
GTX128414	AKT (pSer473) antibody	Hu, Ms
GTX28933	AKT (pThr308) antibody	Hu, Ms, Rat
GTX132812	AKT1 (pSer129) antibody	Hu
GTX130429	AMPK alpha 1 (pThr183) + AMPK alpha 2 (pThr172) antibody	Hu
GTX76675	AS160 / TBC1D4 (pThr642) antibody	Hu, Ms, Rat, Rabbit
GTX634322	c-Jun (pSer63) antibody [GT653]	Hu, Rat
GTX133873	c-Jun (pSer73) antibody	Hu
GTX130379	CREB (pSer133) antibody	Hu, Ms
GTX133870	GSK3 beta (pSer390) antibody	Hu
GTX132997	GSK3 beta (pSer9) antibody	Ms
GTX132803	mTOR (pSer2448) antibody	Hu, Ms
GTX133190	mTOR (pSer2481) antibody	Hu
GTX132597	PI3 kinase p85 (pTyr467)/p55 (pTyr199) antibody	Hu, Ms
GTX132277	PRAS40 (pSer183) antibody	Hu
GTX133176	PRAS40 (pThr246) antibody	Ms
GTX133192	PTEN (pSer380) antibody	Ms
GTX130418	PTEN (pThr366/Ser370) antibody	Hu
GTX133184	4E-BP1 (pSer65) antibody	Hu
GTX133181	4E-BP1 (pThr37/Thr46) antibody	Hu

## NFκB Signaling

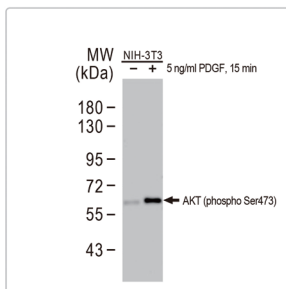
Cat. No.	Product Name	Reactivity
GTX14380	ASK1 (pSer83) antibody	Hu
GTX50229	ASK1 (pSer966) antibody	Hu, Ms
GTX25682	IκB alpha (pSer32/Ser36) antibody	Hu, Ms, Rat, Pig
GTX17943	IKK alpha (pSer176/Ser180) antibody	Hu, Ms
GTX32316	MAP3K8 (pThr290) antibody	Hu, Ms, Rat
GTX32248	MEK1 (pThr286) antibody	Hu, Ms, Rat
GTX25612	MEK1 (pThr292) antibody	Hu, Ms
GTX48615	MEK1/2 (pSer218/222) antibody	Ms
GTX32347	MEK2 (pThr394) antibody	Hu
GTX55115	MKK4 (pSer80) antibody	Hu
GTX32260	MKK4 (pThr261) antibody	Hu, Ms
GTX54550	NFκB p100 (pSer866) antibody	Hu, Ms, Rat
GTX54551	NFκB p100 (pSer870) antibody	Hu, Ms, Rat
GTX54951	NFκB p65 (Acetyl Lys221) antibody	Hu, Ms
GTX86963	NFκB p65 (acetyl Lys310) antibody	Hu, Ms, Mk
GTX54673	NFκB p65 (pSer468) antibody	Hu, Ms, Rat
GTX50098	NFκB p65 (pSer536) antibody	Hu, Ms, Rat
GTX133460	p38 MAPK (pThr180/Tyr182) antibody	Hu
GTX133467	p90 RSK1 (pSer380) antibody	Hu
GTX133531	p90 RSK1 (pThr359) antibody	Hu
GTX133612	p90 RSK1 (pThr573) antibody	Hu
GTX133936	PKC alpha (pSer657) antibody	Hu
GTX130433	PKC alpha (pThr497) antibody	Hu
GTX133937	PKC epsilon (pSer729) antibody	Hu
GTX109689	PKC theta (pSer695) antibody	Hu
GTX133939	PKC zeta (pThr410) antibody	Hu
GTX130426	PKC zeta (pThr560) antibody	Hu
GTX133530	PLCG1 (pSer1248) antibody	Hu
GTX133465	PLCG1 (pTyr783) antibody	Hu
GTX133610	PLCG2 (pTyr1217) antibody	Hu
GTX133528	PLCG2 (pTyr759) antibody	Hu
GTX133470	RSK2 (pSer227) antibody	Ms
GTX133480	RSK3 (pThr356/Ser360) antibody	Hu
GTX132787	VAV1 (pTyr174) antibody	Hu
GTX38562	ZAP70 (pTyr319) antibody	Hu, Ms, Rat

## JAK-STAT Signaling

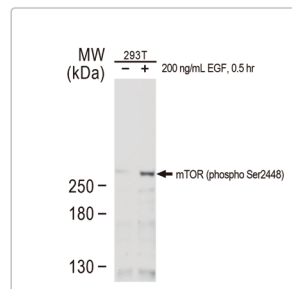
Cat. No.	Product Name	Reactivity
GTX25493	JAK1 (pTyr1022/1023) antibody	Hu, Ms
GTX132784	JAK2 (pTyr1007/1008) antibody	Hu
GTX23991	STAT1 (pSer727) antibody [PSM1]	Hu
GTX133945	STAT2 (pTyr690) antibody	Hu
GTX133464	STAT3 (pTyr705) antibody	Hu
GTX61050	STAT3 (pSer727) antibody [E121-31]	Hu, Rat
GTX133947	STAT5A (pTyr694) antibody	Hu
GTX78935	STAT6 (pTyr641) antibody	Hu, Ms, Rat

## Cell Signaling

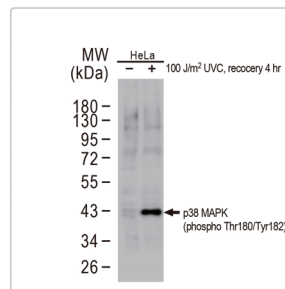
Citation Support



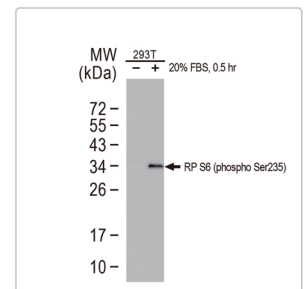
AKT (pSer473) antibody (GTX128414)



mTOR (pSer2448) antibody (GTX132803)



p38 MAPK (pThr180/Tyr182) antibody (GTX133460)



RPS6 (pSer235) antibody [GT829] (GTX633823)

## Cell Cycle

Cat. No.	Product Name	Reactivity
GTX133860	CDC2 (pThr14) antibody	Hu
<b>C</b> GTX128155	CDC2 (pTyr15) antibody	Hu, Rat
GTX128153	CDC25C (pSer216) antibody	Hu
GTX133862	CDK2 (pThr160) antibody	Hu
GTX132802	CDK2 (pTyr15) antibody	Hu
GTX130416	CDK5 (pTyr15) antibody	Hu
GTX132150	Rad17 (pSer656) antibody	Hu
GTX133893	Rb (pSer780) antibody	Hu
GTX133893	Rb (pSer780) antibody	Hu
GTX633823	RPS6 (pSer235) antibody [GT829]	Hu
GTX130430	RPS6 (pSer235/236) antibody	Hu
GTX42908	14-3-3 beta (acetyl) antibody	Hu, Ms, Rat, Rb, Shp, Bov
GTX42904	14-3-3 eta (acetyl) antibody	Hu, Ms, Rat, Rb, Chk, Shp, Bov
GTX42906	14-3-3 epsilon (acetyl) antibody, N-term	Hu, Ms, Rat, Rb, Chk, Shp, Bov

## Cell Death

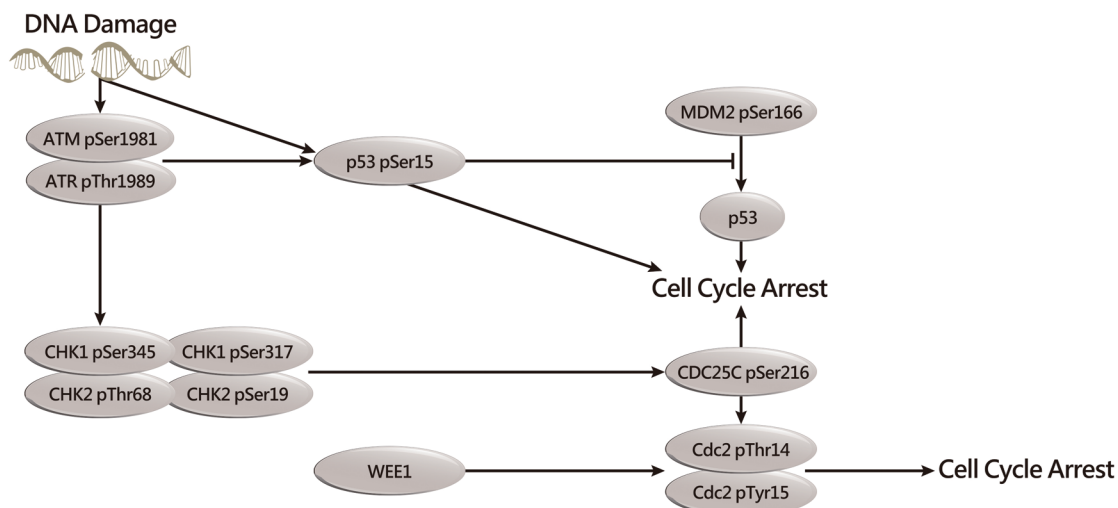
Cat. No.	Product Name	Reactivity
GTX132798	PDCD4 (pSer457) antibody	Ms, Rat
GTX130432	RPA32 (pThr21) antibody	Hu
GTX133943	SQSTM1 (pSer272) antibody	Hu
GTX134001	SQSTM1 (pSer349) antibody	Hu
<b>C</b> GTX128171	SQSTM1 (pSer403) antibody	Hu, Ms, Rat
GTX132660	ULK1 (pSer555) antibody	Hu
GTX133540	ULK1 (pSer638) antibody	Hu
GTX132654	ULK1 (pSer758) antibody	Hu

## Cell Death

Cat. No.	Product Name	Reactivity
<b>C</b> GTX132146	ATM (pSer1981) antibody	Hu
GTX129653	Bcl-2 (pSer70) antibody	Hu
GTX129654	Bcl-2 (pSer87) antibody	Hu
GTX132170	Chk1 (pSer317) antibody	Hu
<b>C</b> GTX100065	Chk1 (pSer345) antibody [C1C2], Internal	Hu, Ms
GTX133989	Chk2 (pSer19) antibody	Hu
<b>K</b> GTX132204	Chk2 (pThr68) antibody	Hu
GTX133850	HSP27 (pSer82) antibody	Hu
GTX634421	HSP27 (pSer82) antibody [GT357]	Hu
<b>C</b> GTX132808	IRE1 alpha (pSer724) antibody	Hu
GTX133996	MDM2 (pSer166) antibody	Hu
GTX133948	MST1 (pThr183) + MST2 (pThr180) antibody	Hu
GTX133883	NBS1 (pSer343) antibody	Hu

## Adhesion/Migration

Cat. No.	Product Name	Reactivity
GTX133865	Cofilin 1 (pSer3) antibody	Hu
GTX130427	E-Cadherin (pSer838/840) antibody	Hu, Rat
GTX129058	eNOS (pSer1177) antibody	Hu
GTX133868	Ezrin (pThr567) antibody	Hu
GTX133889	FAK (pSer732) antibody	Hu
<b>K</b> <b>C</b> GTX129840	FAK (pTyr397) antibody	Hu
<b>K</b> GTX132320	FAK (pTyr407) antibody	Hu
<b>K</b> GTX132140	FAK (pTyr576) antibody	Hu
<b>C</b> GTX133876	Lck (pTyr394) antibody	Hu, Ms
GTX130454	LYN (pTyr396) antibody	Hu
GTX633955	MYH9 (pSer1943) antibody [GT144]	Hu
<b>K</b> GTX130428	p120 Catenin (pSer268) antibody	Hu
GTX132160	p130Cas (pTyr165) antibody	Hu
GTX132162	p130Cas (pTyr410) antibody	Hu
GTX132362	Paxillin (pSer273) antibody	Hu
GTX633633	Paxillin (pTyr118) antibody [GT712]	Hu
<b>K</b> <b>C</b> GTX132154	Paxillin (pTyr31) antibody	Hu
<b>K</b> <b>C</b> GTX122651	ROCK2 (pSer1366) antibody	Hu, Ms, Rat
GTX133473	Src (pTyr529) antibody	Ms
GTX12862	Syk (pTyr323) antibody	Hu, Ms
<b>K</b> GTX132607	Vimentin (pSer56) antibody	Hu
GTX633923	Vimentin (pSer56) antibody [GT11512]	Hu



## Oncoproteins / Tumor Suppressor Proteins

Cat. No.	Product Name	Reactivity
GTX132605	beta Catenin (pSer33/Ser37/Thr41) antibody	Hu
GTX132611	beta Catenin (pSer675) antibody	Hu
GTX38676	BRCA1 (pSer1423) antibody	Hu
GTX55124	BRCA1 (pSer1524) antibody	Hu, Ms, Rat
GTX55381	BRCA2 (pSer3291) antibody	Hu, Ms, Rat
GTX133980	c-Abl (pTyr245) antibody	Hu
GTX32220	c-Myc (pSer62) antibody	Hu
GTX130417	Her2 (pTyr1139) antibody	Hu
GTX133602	Her2 (pTyr1196) antibody	Hu
GTX133445	Her2 (pTyr1221/Tyr1222) antibody	Hu
GTX133439	Her2 (pTyr1248) antibody	Hu
GTX133605	Her2 (pTyr877) antibody	Hu
GTX133478	LKB1 (pSer307) antibody	Hu
GTX133905	p53 (pSer6) antibody	Hu
GTX132995	p53 (pSer15) antibody	Hu
GTX133902	p53 (pSer33) antibody	Hu
GTX54949	p53 (acetyl Lys319) antibody	Hu
GTX117515	p53 (mono-methyl Lys372) antibody	Hu, Frg
GTX30768	p53 (acetyl Lys373) antibody	Hu
GTX88013	p53 (acetyl Lys379) antibody	Hu, Ms, Rat
GTX54950	p53 (acetyl Lys381) antibody	Hu
GTX88009	p53 (acetyl Lys386) antibody	Hu
GTX133904	p53 (pSer392) antibody	Hu
GTX634168	p53 (pSer46) antibody [GT1018]	Hu
GTX133941	Ret (pTyr1062) antibody	Hu
GTX133953	YAP1 (pSer61) antibody	Hu
GTX130424	YAP1 (pSer127) antibody	Hu

## Growth Factor Receptors

Cat. No.	Product Name	Reactivity
GTX133596	EGFR (pThr669) antibody	Hu
GTX133600	EGFR (pTyr845) antibody	Hu
GTX133429	EGFR (pTyr992) antibody	Hu
GTX133601	EGFR (pTyr998) antibody	Hu
GTX133598	EGFR (pTyr1045) antibody	Hu
GTX133433	EGFR (pSer1046/Ser1047) antibody	Hu
GTX132810	EGFR (pTyr1068) antibody	Hu
GTX133599	EGFR (pTyr1086) antibody	Hu
GTX133435	EGFR (pTyr1148) antibody	Hu
GTX133595	EGFR (pTyr1173) antibody	Hu
GTX133526	FGFR1 (pTyr653/654) antibody	Hu
GTX133459	FGFR1 (pTyr766) antibody	Hu
GTX133449	IGF1R (pTyr980) antibody	Hu
GTX133450	IGF1R (pTyr1131) antibody	Hu
GTX133448	IGF1R (pTyr1316) antibody	Hu
GTX133848	IRS1 (pSer307) antibody	Ms
GTX133609	PDGFR beta (pTyr740) antibody	Ms
GTX133525	PDGFR beta (pTyr751) antibody	Ms
GTX133524	PDGFR beta (pTyr771) antibody	Ms
GTX133521	PDGFR beta (pTyr857) antibody	Ms
GTX133522	PDGFR beta (pTyr1009) antibody	Ms
GTX50153	VEGFR 2 (pTyr951) antibody	Hu, Ms, Rat
GTX32403	VEGFR 2 (pTyr1175) antibody	Hu, Ms

## EGFR Signaling

