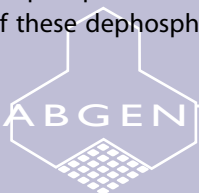


PHOSPHORYLATION - PHOSPHATASES



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Phosphorylation by protein kinases is a process that can be reversed by a group of enzymes called protein phosphatases. Coordinated control of kinases and phosphatases provides the cell with the capacity to rapidly switch between phosphorylated and dephosphorylated protein states in dynamic response to environmental stimuli. Eukaryotic cell division is an archetypal and highly significant example of the synchronization of kinase and phosphatase activity to regulate key cellular activity. Activation of critical enzymes by kinase phosphorylation alone is not enough to provide adequate regulation – it is the combination with phosphatase dephosphorylation that effectively creates on/off switches to control cellular events. Errors in control, either through kinases or their counterpart phosphatases, can lead to unchecked cell growth attributable to human cancers and developmental disorders. Potential mechanisms to dephosphorylate include changes in the expression of protein phosphatases, subcellular localization, phosphorylation of phosphatase catalytic and regulatory subunits and regulation by endogenous phosphatase inhibitors. Identification and characterization of endogenous inhibitors of protein tyrosine phosphatases is in an earlier stage; the most extensive work on phosphatase inhibitors has focused on hormonally-regulated protein inhibitors regulating the major cellular protein serine/threonine phosphatases. Antibodies to protein phosphatases afford a tool to map out and understand in greater detail the interplay of these dephosphorylating molecules with the sensitive cellular machinery regulating key cellular processes.



LIST OF ANTIBODY PRODUCTS

Catalog #	Product Title	Catalog #	Product Title	Catalog #	Product Title
AP8401a	BDP1 N-term Antibody	AP8408b	MEG2 C-term Antibody	AP8451b	PPP3CA C-term Antibody
AP8449b	CTDSP1 C-term Antibody	AP8408a	MEG2 N-term Antibody	AP8451a	PPP3CA N-term Antibody
AP8449a	CTDSP1 N-term Antibody	AP6809b	MTM1 C-term Antibody	AP8452b	PPP3CB C-term Antibody
AP8448b	CTDSP2 C-term Antibody	AP6809a	MTM1 N-term Antibody	AP8452a	PPP3CB N-term Antibody
AP8448a	CTDSP2 N-term Antibody	AP6801a	MTMR1 N-term Antibody	AP8453b	PPP3CC C-term Antibody
AP8402a	DEP1 C-term Antibody	AP6802a	MTMR2 N-term Antibody	AP8453a	PPP3CC N-term Antibody
AP8433b	DUSP1 C-term Antibody	AP6803a	MTMR3 C-term Antibody	AP8463b	PPP4C C-term Antibody
AP8433a	DUSP1 N-term Antibody	AP6804a	MTMR4 C-term Antibody	AP8463a	PPP4C N-term Antibody
AP8441b	DUSP10 C-term Antibody	AP6805a	MTMR5 N-term Antibody	AP8464a	PPP5C Center Antibody
AP8441a	DUSP10 N-term Antibody	AP6806a	MTMR6 C-term Antibody	AP8464b	PPP5C C-term Antibody
AP8442b	DUSP12 C-term Antibody	AP6807a	MTMR7 C-term Antibody	AP8465b	PPP6C C-term Antibody
AP8442a	DUSP12 N-term Antibody	AP6808a	MTMR8 C-term Antibody	AP8465a	PPP6C N-term Antibody
AP8443b	DUSP13 C-term Antibody	AP8409a	PCPTP1 N-term Antibody	AP8432b	PTEN C-term Antibody
AP8443a	DUSP13 N-term Antibody	AP8410a	PEST Center Antibody	AP8432a	PTEN N-term Antibody
AP8444b	DUSP14 C-term Antibody	AP8410b	PEST C-term Antibody	AP8411b	PTP1B C-term Antibody
AP8444a	DUSP14 N-term Antibody	AP8462b	PPEF1 C-term Antibody	AP8411a	PTP1B C-term Antibody
AP8445b	DUSP15 C-term Antibody	AP8462a	PPEF1 N-term Antibody	AP8412a	PTPalpha N-term Antibody
AP8445a	DUSP15 N-term Antibody	AP8466a	PPEF2 Center Antibody	AP8423a	PTPBAS C-term Antibody
AP8446b	DUSP16 C-term Antibody	AP8466b	PPEF2 C-term Antibody	AP8413a	PTPbeta C-term Antibody
AP8446a	DUSP16 N-term Antibody	AP8454b	PPM1A C-term Antibody	AP8424a	PTPD1 Center Antibody
AP8434b	DUSP3 C-term Antibody	AP8454a	PPM1A N-term Antibody	AP8425a	PTPD2 N-term Antibody
AP8434a	DUSP3 N-term Antibody	AP8455b	PPM1B C-term Antibody	AP8415a	PTPdelta C-term Antibody
AP8435b	DUSP4 C-term Antibody	AP8455a	PPM1B N-term Antibody	AP8416a	PTPepsilon C-term Antibody
AP8435a	DUSP4 N-term Antibody	AP8456b	PPM1D C-term Antibody	AP8414a	PTPgamma Center Antibody
AP8436b	DUSP5 C-term Antibody	AP8456a	PPM1D N-term Antibody	AP8426a	PTPH1 Center Antibody
AP8436a	DUSP5 N-term Antibody	AP8457b	PPM1E C-term Antibody	AP8428a	PTPIA2 N-term Antibody
AP8437a	DUSP6 N-term Antibody	AP8457a	PPM1E N-term Antibody	AP8427a	PTPIA2beta N-term Antibody
AP8438b	DUSP7 C-term Antibody	AP8447b	PPM1F C-term Antibody	AP8417a	PTPkappa N-term Antibody
AP8438a	DUSP7 N-term Antibody	AP8447a	PPM1F N-term Antibody	AP8418a	PTPlambda N-term Antibody
AP8439b	DUSP8 C-term Antibody	AP8458a	PPM1G Center Antibody	AP8419a	PTPmu N-term Antibody
AP8439a	DUSP8 N-term Antibody	AP8458b	PPM1G C-term Antibody	AP8420a	PTPtheta N-term Antibody
AP8440b	DUSP9 C-term Antibody	AP8459b	PPP1CA C-term Antibody	AP8421a	PTPsigma C-term Antibody
AP8440a	DUSP9 N-term Antibody	AP8459a	PPP1CA N-term Antibody	AP8422a	PTPzeta Center Antibody
AP8403a	GLEPP1 Center Antibody	AP8460b	PPP1CB C-term Antibody	AP8429a	SAP1 C-term Antibody
AP8404a	HePTP N-term Antibody	AP8460a	PPP1CB N-term Antibody	AP8430a	STEP N-term Antibody
AP8405a	LAR C-term Antibody	AP8461b	PPP1CC C-term Antibody	AP8431a	TCPTP C-term Antibody
AP8406b	LyPTP C-term Antibody	AP8461a	PPP1CC N-term Antibody	AP6810a	TPIPalpha C-term Antibody
AP8406a	LyPTP N-term Antibody	AP8450b	PPP2CA/B C-term Antibody	AP6810b	TPIPbeta C-term Antibody
AP8407a	MEG1 Center Antibody	AP8450a	PPP2CA/B N-term Antibody	AP6811a	TPTEalpha N-term Antibody

SELECTED PRODUCT INFORMATION

Name	MTM1	MTMR2	MTMR6	MTMR8	PTP γ
Epitope					
Catalog #	AP6809b	AP6802a	AP6806a	AP6808a	AP8414a
Western	