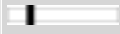
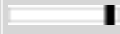
CELLULAR FUNCTION AND DISEASE

The goal of cell regulation is to deliver the proper quantity of proteins to the right location at the right time for normal cellular function. The rapid coupling of the intricate cell signaling network to changes in protein phenotypes is the lever of control used to achieve this objective. Posttranslational modifications functionally imprint protein phenotype via changes in protein structure and function and are thereby a key for properly tasking proteins within the cell. In addition, specific protein-protein interactions can control the expression of intracellular phenotype. The proper modification of proteins either through covalent modification or protein-protein interactions is a key aspect determining cellular health and disease. Posttranslational modifications and protein interactions permit the cell to exert control with an economy of resources by combinatorially expanding the set of molecular interactions available from a single genomic output. Many proteins are involved in multiple functions that are segmented by phenotype. In these cases, cross-functional cellular regulation can be accomplished by altering the modification of a single protein. The functional partitioning of kinases and phosphatases via phosphorylation exemplifies how a key posttranslational modification dynamically links a wide variety of molecular signaling pathways to specific responses within one pathway. These insights have spurred innovations in the approach to understanding how to extract useful information from the proteome. For example, observing changes in protein phenotype ratios associated with a particular cell function may be more helpful than measuring total cellular abundance in the prediction of pathology.

LIST OF ANTIBODY PRODUCTS

Catalog #	Name	Catalog #	Name	Catalog #	Name	Catalog #	Name	Catalog #	Name
AP6111a	ABCB1	AP1569a	GCAP3	AP6150a	LEP	AP6197a	MMP13	AP6237a	RAI1
AP6112a	ABCB4	AP2064a	GDF2	AP6151a	LEPR	AP6198a	MMP14	AP6238a	RAI2
AP6113a	ABCB6	AP1541b	GJA1	AP6163a	MAGEA1	AP6199a	MMP15	AP6239a	RAI3
AM1130a	AC133	AP1550a	GJA10	AP6164a	MAGEA2	AP6200a	MMP16	AP6233a	RAI14
AP6020a	ACE2	AP1543a	GJA3	AP6165a	MAGEA3	AP6201a	MMP17	AP1565b	Recoverin
AP6302a	APH1	AP1544b	GJA4	AP6166a	MAGEA4	AP6202a	MMP19	AP2516a	RING1
AP1352a	Apobec1	AP1545a	GJA5	AP6167a	MAGEA5	AP6203a	MMP20	AP6007a	SARS virus EnvE
AP6306a	APP	AP1541a	GJB1	AP6168a	MAGEA6	AP6204a	MMP23	AP6000b	SARS virus Sm
AP8170a	BAI1	AP1542a	GJB2	AP6169a	MAGEA8	AP6205a	MMP24	AP6000a	SARS virus Sn
AP8171a	BAI2	AP1543b	GJB3	AP6170a	MAGEA9	AP6215a	MSF	AP6263a	SCDGFB
AP8172a	BAI3	AP1544a	GJB4	AP6171a	MAGEB1	AP6216a	MVP	AP2052a	SCRATCH1
AP8173a	BAIAP1	AP6145a	GROS1	AP6172a	MAGEB2	AP6217a	NBL1	AP6262a	SHFM3
AP8174a	BAIAP2	AP6116a	HAND1	AP6173a	MAGEB3	AP1551c	NCS1	AP1621a	SIGLEC1
AP1723a	BIKE	AP6117a	HAND2	AP6174a	MAGEB4	AP6303a	NICA	AP1622a	SIGLEC3
AP6126a	BIRC5	AP6118a	HAP1	AP6175a	MAGEC1	AP6218a	NOTCH1	AP1623a	SIGLEC5
AP2513b	BMI	AP6120a	HAPIP	AP6176a	MAGED1	AP6219a	NOTCH2	AP1624a	SIGLEC6
AP1570a	Calmodulin	AP6264a	hDSS1	AP6177a	MAGED2	AP6220a	NOTCH3	AP1625a	SIGLEC7
AP2514a	CBX	AP1564a	Hippocalcin	AP6178a	MAGEE1	AP6221a	NOTCH4	AP1626a	SIGLEC8
AP2514b	CBX4	AP2518a	HRX	AP6179a	MAGEF1	AP6222a	NRG1	AP1627a	SIGLEC9
AP2515a	CBX8	AP1334a	HSP40	AP6181a	MAGEL1	AP6223a	NRG2	AP6240a	SIRT1
AP1620a	CD45	AP1335a	HSP70	AP6182a	MLL1	AP6224a	NRG3	AP6241a	SIRT2
AP6130a	CDX1	AP1331a	HtrA1	AP6183a	MLL2	AP6225a	NRG4	AP6242a	SIRT3
AP6131a	CDX2	AP1332a	HtrA3	AP6184a	MLL3	AP6226a	OAS1	AP6243a	SIRT4
AP6132a	CDX4	AP1502a	TLR2	AP6190a	MLL3	AP6227a	OAS2	AP6244a	SIRT5
AM1141b	CEM15	AP1503b	TLR3	AP6185a	MLL4	AP6228a	OAS3	AP2048a	SOX2
AP6107a	COL1A1	AP1506a	TLR6	AP6186a	MLL5	AP6229a	OASIS	AP6249a	ST5
AP6136a	DMAP1	AP1507b	TLR7	AP6188a	MLLT1	AP6230a	OASL	AP6250a	ST6
AP7690a	DOK1	AP1508a	TLR8	AP6189a	MLLT2	AM1110a	P100	AP6251a	ST7
AP7691b	DOK2	AP1509a	TLR9	AP6191a	MLLT4	AP6258a	PDAP1	AP2039a	Synaptophysin
AP7691a	DOK2	AP6146a	ICOS	AP6192a	MLLT6	AP6301a	PEN2	AP6252a	TAP1
AP1633a	Dsiglec	AM8108a	IKKalpha	AP6193a	MLLT7	AP1354a	PHO1	AP6253a	TAP2
AP6137a	EDG1	AM8109a	IKKbeta	AP6210a	MMP2	AP1353a	PHO3	AP2040a	TAU
AP6138a	EDG2	AM8110a	IKKgamma	AP6211a	MMP3	AM1120a	PLM	AP1521a	TOLLIP
AP6139a	EDG3	AP6147a	JAG1	AP6212a	MMP7	AP6231a	PSEN1	AM1121a	VABP
AP6140a	EDG4	AP6148a	JAG2	AP6213a	MMP8	AP6232a	PSEN2	AM1100a	VEGF3
AP2511d	EZH1	AP1571a	KChIP1	AP6214a	MMP9	AP6304a	PSN1	AM1101a	VEGF4
AP2512a	EZH2	AP1573c	KChIP2	AP6194a	MMP10	AP6305a	PSN2	AP1561a	VILIP1
AP1567a	GCAP1	AP1572a	KChIP3	AP6195a	MMP11	AP6260a	PVR	AP1562a	VILIP2
AP1568b	GCAP2	AP6149a	LAF4	AP6196a	MMP12	AP6259a	PVRL1	AP6255a	WISP1

SELECTED PRODUCT INFORMATION

Name	BMPR1B	CBX	CCBP2	CD45	CEM15	DKK2	DOK2	GCAP1	GDF3	IL29
Epitope										
Catalog #	AP2005b	AP2514b	AP2012b	AP1620a	AM1141b	AP1522a	AP7691b	AP1567b	AP2066a	AP1709b
Western										

ABGENT
envision proteomics

ABGENT develops innovative reagents and technologies to profile ***post-translational modifications***, which dynamically regulate the functional proteome. These modifications forge a vital link between genotype and phenotype. By targeting these ***post-translational modifications***, ABGENT serves scientists exploring the complex paths between cell signaling and pathology.

Corporate Headquarters
6310 Nancy Ridge Dr., Ste 106
San Diego, California 92121
Tel: 1 858 622 0099
Fax: 1 858 622 0609
Email: info@abgent.com
Email: sales@abgent.com

European Headquarters
Centro Nord-Sud 2E
6934 Bioggio-Lugano
Switzerland
Tel: +41 (0) 91 604 67 01
Fax: +41 (0) 91 605 17 85
Email: eurotech@abgent.com