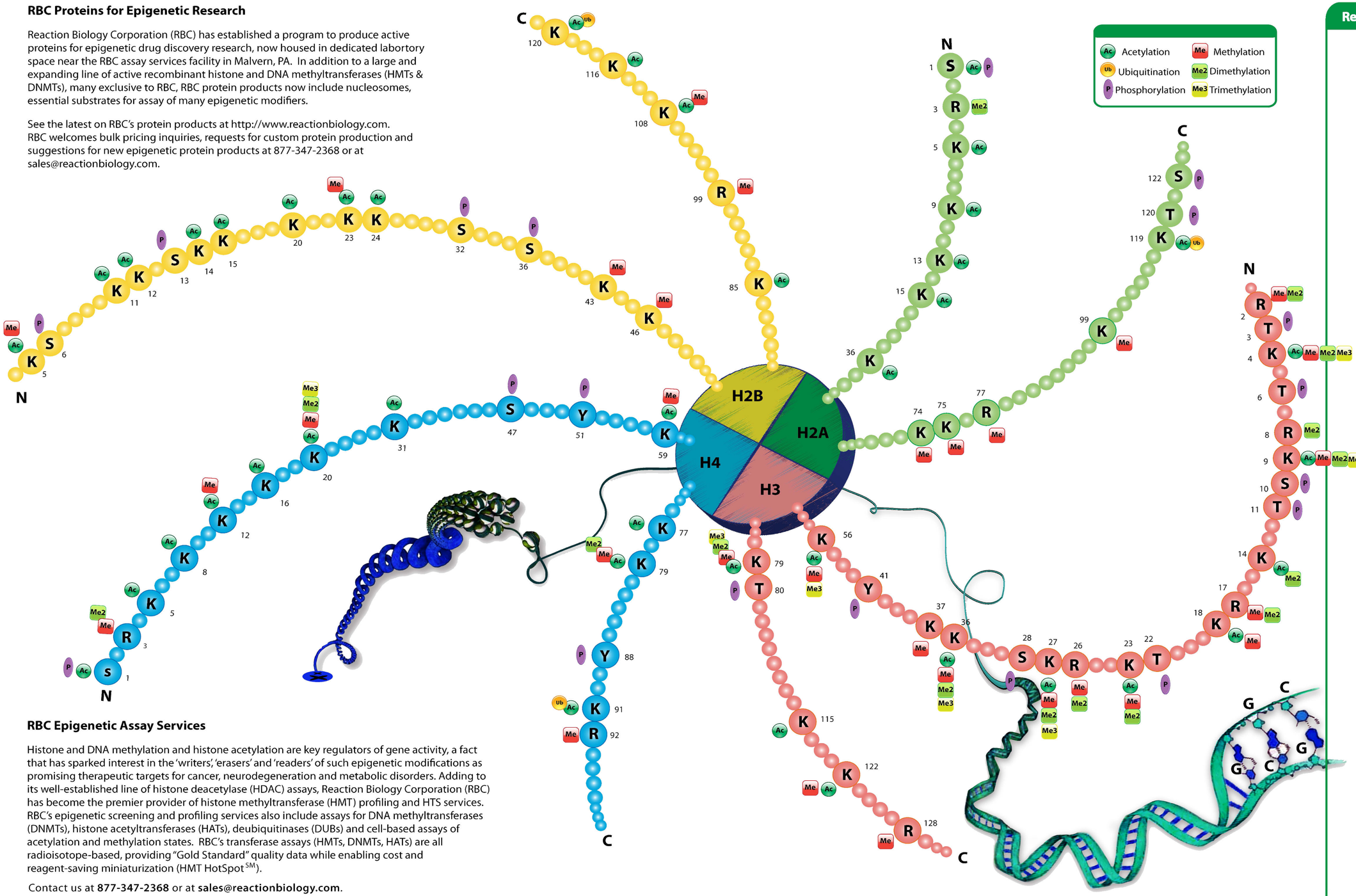
Histone Modification

REACTION BIOLOGY CORP.

RBC Proteins for Epigenetic Research

Reaction Biology Corporation (RBC) has established a program to produce active proteins for epigenetic drug discovery research, now housed in dedicated labortory space near the RBC assay services facility in Malvern, PA. In addition to a large and expanding line of active recombinant histone and DNA methyltransferases (HMTs & DNMTs), many exclusive to RBC, RBC protein products now include nucleosomes, essential substrates for assay of many epigenetic modifiers.

See the latest on RBC's protein products at http://www.reactionbiology.com. RBC welcomes bulk pricing inquiries, requests for custom protein production and suggestions for new epigenetic protein products at 877-347-2368 or at sales@reactionbiology.com.



RBC Epigenetic Assay Services

Histone and DNA methylation and histone acetylation are key regulators of gene activity, a fact that has sparked interest in the 'writers,' 'erasers' and 'readers' of such epigenetic modifications as promising therapeutic targets for cancer, neurodegeneration and metabolic disorders. Adding to its well-established line of histone deacetylase (HDAC) assays, Reaction Biology Corporation (RBC) has become the premier provider of histone methyltransferase (HMT) profiling and HTS services. RBC's epigenetic screening and profiling services also include assays for DNA methyltransferases (DNMTs), histone acetyltransferases (HATs), deubiquitinases (DUBs) and cell-based assays of acetylation and methylation states. RBC's transferase assays (HMTs, DNMTs, HATs) are all radioisotope-based, providing "Gold Standard" quality data while enabling cost and reagent-saving miniaturization (HMT HotSpot℠).

Contact us at **877-347-2368** or at **sales@reactionbiology.com**.

Reaction Biology Epigenetic Assay Services

RBC Assay Services
RBC Proteins Available
Both Assay Services & Proteins Available

DNA Methyltransferases (DNMTs)
DNMT1
DNMT3a
DNMT3b
DNMT3b/3L Complex

Histone (Protein) Methyltransferases (HMTs)

Ash1L
Dot1L
EZH1 Complex
EZH2 Complex
EZH2-Y641F Complex
G9a
GLP
G9a-GLP Complex
MLL1 Complex
MLL2 Complex
MLL3 Complex
MLL4 Complex
MLL5 Complex
NSD1
NSD2
NSD2 (His)
NSD2-E1099K
NSD2-T1150A
NSD3
PRDM8
PRDM9
PRMT1
PRMT3
PRMT4
PRMT5/MEP50 Complex
PRMT6
PRMT8
SET1A Complex
SET1B Complex
SET7/9
SET8
SETD2 (GST)
SETD2 (His)
SETMAR
SMYD2
SUV39H1
SUV39H2
SUV420H1-tv1
SUV420H2-tv2
WRAD2 Complex

Substrates
GST-GAR
Histone H2A
Histone H2B
Histone H3.3
Nucleosomes (HeLa Mono/Di)
Nucleosomes (HeLa Oligo)
Nucleosomes (HeLa Oligo, Biotinylated)

Histone Deacetylases (HDACs)

HDAC1
HDAC2
HDAC3
HDAC4
HDAC5
HDAC6
HDAC7
HDAC8
HDAC9
HDAC10
HDAC11
Nuclear Extract
SIRT1
SIRT2
SIRT3
SIRT5

Histone Acetyltransferases (HATs)
P300
CBP
hGCN5
KAT5
MYST2
MYST4
pCAF

Reader Domains

ASH1L-[BRD]
ATAD2
ATAD2B
BAZ1A
BAZ1B
BAZ2A
BAZ2B
BPTF-[BRD]
BRD1
BRD2-1
BRD2-2
BRD2 Tandem
BRD3-1
BRD3-2
BRD3 Tandem
BRD4 Full Length
BRD4-1
BRD4-2
BRD4-Tandem
BRD7
BRD9
BRDT-1
BRDT-2
BRDT-Tandem
BRPF1a
BRPF1b
BRPF3
BRWD1-2
CECR2
CREBBP
EP300
HP1β
HP1β-[CHR]
KAT2A
KAT2B
L3MBTL1
PB1-1
PB1-2
PB1-3
PB1-4
PB1-5
PB1-6
PHIP-2
PHIP-Tandem
SMARCA2a
SMARCA2b
SMARCA4
SP100
SP110c
SP140
SP140L
TAF1-1
TAF1-2
TAF1L-1
TAF1L-2
TAF1L-Tandem
TRIM24
TRIM28
TRIM33a (His)
TRIM33b
TRIM66
UHRF1- [PHD]
UHRF1-[SRA]
UHRF1-[TDR]
UHRF1-[TDR-PHD]
UHRF1-FL

Demethylases
LSD1

Deubiquitinases (DUBs)
A20
Ataxin3
BAP1
NEDP1
SENP1
UCHL1
UCHL3
USP10
USP14
USP2
USP5
USP8

Cellular Assays
H3K27me3
H3K4me2
H3K79me2
H3K36me2
H3K9me2
H3K27me2
Histone Acetylation
Tubulin Acetylation

Other
OGT () O-GlcNAc Transferase

Visit http://www.reactionbiology.com/ for information on established assays.