

# An Acetyl-Click Chemistry Assay to Measure Histone Acetyltransferase 1 Acetylation

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## Materials

Name	Company	Catalog Number	Comments
4P CoA	Cayman Chemical	10547	Click chemistry co-factor
Amplex Red	Fisher Sci	A12222	Fluorescence substrate
Biotin-PEG-Azide	Alfa Aesar	J64996MC	Click chemistry
Copper Sulfate	Sigma-aldrich	7758-98-7	Click chemistry
DMSO	Fisher Scientific	67-68-5	diluent
DTT	Acros Organics	03-12-3483	reducing agent
Forskolin	VWR	102987-310	Protein expression
Freestyle 293 Expression Medium	Thermo Fisher	12338018	Media
Freestyle 293-F cells	Thermo Fisher	R790-07	Protein expression
H4-peptide/1-23-GGK-biotin	Anaspec	AS65097	peptide substrate
HEPES	Sigma-aldrich	7365-45-9	EB buffer
Hydrogen peroxide 30% solution	Sigma-aldrich	Z00183-99-0	initiator
M2 FLAG antibody slurry	Millipore-Sigma	A2220	Protein purification
Macrosep 10K Filter (Pall Lab)	VWR	89131-980	Protein purification
Neutravidin Plate	Thermo Sci	15127	BSA-pre-blocked
NP40 (IGEPAL)	MP Biomedical	198596	20x buffer
pHEK-293 plasmid	Takara Bio	3390	Protein expression
Phosphate Buffered Saline 10x	Alfa Aesar	Z00082-33-6	wash buffer
Pra peptide	Genscript	Custom synthesis	biotinylated
Sodium Ascorbate	Sigma-aldrich	134-03-2	Click chemistry
Sodium chloride	Sigma-aldrich	7647-14-5	EB buffer
Sodium phosphate	VWR International	7558-80-7	buffer
Streptavidin	EMD Millipore	189730	competitor
Streptavidin-HRP	Cell Signaling	3999S	enzyme
THPTA ligand	Fisher Sci	1010-500	Click chemistry
Tris base	Sigma-aldrich	77-86-1	20x buffer
Triton-X 100	VWR International	9002-93-1	EB buffer

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Tween-20	Sigma-aldrich	9005-64-5	Wash buffer
Urea	Sigma-Aldrich	57-13-6	quencher