

Lysine Acetyltransferase Antibody Sampler Kit

Cat# AK0186

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

CREB-binding protein (CBP) and p300 are highly conserved and functionally related transcriptional co-activators that associate with transcriptional regulators and signaling molecules, integrating multiple signal transduction pathways with the transcriptional machinery. CBP/p300 also contain histone acetyltransferase (HAT) activity, allowing them to acetylate histones and other proteins. The role of acetylation of CBP/p300 is of particular interest. Acetylation of p300 at Lys1499 has been demonstrated to enhance its HAT activity and affect a wide variety of signaling events. p300/CBP-associated factor (PCAF), also known as lysine acetyltransferase 2B (KAT2B), and General Control of Amino Acid Synthesis Yeast Homolog Like 2 (GCN5L2) are transcriptional adaptor proteins in addition to HATs. PCAF functions as the catalytic subunit of the PCAF transcriptional co-activator complex. GCN5L2 functions as the catalytic subunit of the STAGA and TFC transcription coactivator complexes. PCAF and GCN5L2 acetylate histone H3 at Lys14 and histone H4 at Lys8, both of which contribute to gene activation by modulating chromatin structure and recruiting additional co-activator proteins that contain acetyl-lysine binding bromo-domains. PCAF also acetylates non-histone proteins including transcriptional activators (p53, E2F1, MyoD) and general transcription factors (TFIIE β and TFIIF). GCN5L2 also acetylates non-histone proteins such as transcription activators (TAT, c-Myb), transcription co-activators (PGC1- α), and nuclear receptors (Steroidogenic Factor 1). Acetylation of these proteins regulates their nuclear localization, protein stability, DNA binding, and co-activator association.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340474	CREBBP Polyclonal Antibody	20 μ L	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A340183	Acetyl-CREBBP (Lys1535) Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340624	KAT2B Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340530	GCN5 Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120 μ L	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.