Best Tools for immunology Research

Total CAF-1 p60 Cell-Based Colorimetric ELISA Kit

Catalog No :	KA3701C
Reactivity :	Human;Mouse;Rat
Applications :	ELISA
Gene Name :	CHAF1B
Human Gene Id :	8208
Human Swiss Prot No :	Q13112
Mouse Swiss Prot No :	Q9D0N7
Storage Stability :	2-8°C/6 months
Detection Method :	Colorimetric
Background :	developmental stage:Active complex is found in G1, S and G2 phases.,function:Complex that is thought to mediate chromatin assembly in DNA replication and DNA repair. Assembles histone octamers onto replicating DNA in vitro. CAF-1 performs the first step of the nucleosome assembly process, bringing newly synthesized histones H3 and H4 to replicating DNA; histones H2A/H2B can bind to this chromatin precursor subsequent to DNA replication to complete the histone octamer. The CCR4-NOT complex functions as general transcription regulation complex.,PTM:Differentially phosphorylated during cell cycle. During mitosis the p60 subunit of inactive CAF-1 is hyperphosphorylated and displaced into the cytosol. Progressivly dephosphorylated from G1 to S and G2 phase. Phosphorylated p60 is recruited to chromatin undergoing DNA repair after UV irradiation in G1, S or G2 phases.,similarity:Belongs to the WD repeat HIR1 family.,similarity:Contains 7 WD repeats.,subcellular location:DNA replication foci. Cytoplasmic in M phase.,subunit:Subunit of the CAF-1 complex that contains RBBP4, CHAF1B and CHAF1A. CHAF1A binds directly to CHAF1B. Only minor amounts of RBBP4 are complexed with CHAF1A and CHAF1B in G1 phase. In G2 and S phase also monomeric CHAF1B is detected. Subunit of the CCR4-NOT core complex that contains CHAF1A, CHAF1B, CNOT1, CNOT2, CNOT3, CNOT4, CNOT6 and CNOT8.,
Function :	DNA metabolic process, DNA replication, DNA repair, DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, DNA replication-dependent nucleosome

assembly, transcription, protein complex assembly, response to DNA damage stimulus, cell cycle, chromatin assembly, cellular response to stress, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, DNA replication-dependent nucleosome organization, nucleosome organization, macromolecular complex subunit organization, regulation of transcription, chromosome organization, macromolecular complex assembly, protein-DNA complex assembly, protein complex biogenesis,

Subcellular Location : Nucleus . Cytoplasm . DNA replication foci. Cytoplasmic in M phase.

Products Images