SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-p150 CAF1/HRP Conjugated antibody

Catalog Number: SL9392R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-p150 CAF1/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human p150 CAF1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse)
Background:	background: Core component of the CAF-1 complex, a complex 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. CHAF1A binds to histones H3 and H4. It may play a role in heterochromatin maintenance in proliferating cells by bringing newly synthesized cbx proteins to heterochromatic DNA replication foci (By similarity). The CCR4-NOT complex functions as general transcription regulation complex. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: Core component of the CAF-1 complex, a complex 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. CHAF1A binds to histones H3 and H4. It may play a role in heterochromatin maintenance in proliferating cells by bringing newly synthesized cbx proteins to heterochromatic DNA replication foci (By similarity). The CCR4-NOT complex functions as general transcription regulation complex. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. **Subunit:** Homodimer. Part 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. Part of the CCR4-NOT core complex that contains CHAF1A, CHAF1B, CNOT1, CNOT2, CNOT3, CNOT4, CNOT6 and CNOT8. CHAF1A binds directly to PCNA and to CBX1. Binds MBD1. Interacts directly with CBX5 via the PxVxL motif. During DNA replication, it forms a S phase-specific complex that facilitates DNA methylation and histone H3 'Lys-9' methylation during replication-coupled chromatin assembly and is at least composed of the CHAF1A, MBD1 and SETDB1. Component of the WINAC complex, at least composed of SMARCA2, SMARCA4, SMARCB1, SMARCC1, SMARCC2, SMARCD1, SMARCE1, ACTL6A, BAZ1B/WSTF, ARID1A, SUPT16H, CHAF1A and TOP2B. Interacts with CBX5. **Subcellular Location:** Nucleus. Note=DNA replication foci. **Post-translational modifications:** Phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Belongs to the CHAF1A family. foci. **Database links:** **Entrez Gene:** 10036 Human Omim: 601246 Human **SwissProt:** Q13111 Human **Unigene:** 79018 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.