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Product datasheet for AP06694PU-M

HP1 alpha (CBX5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunofluorescence**: 1/50-1/200. **Immunohistochemistry on paraffin sections**: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 50-100 of Human CBX5.
Specificity:	This antibody detects endogenous levels of HP1-alpha/CBX5 protein. (region surrounding Lys69)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~ 25 kDa
Gene Name:	chromobox 5
Database Link:	Entrez Gene 23468 Human P45973

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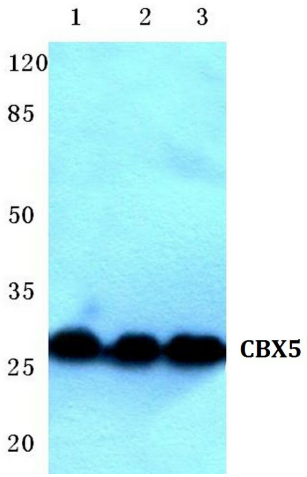
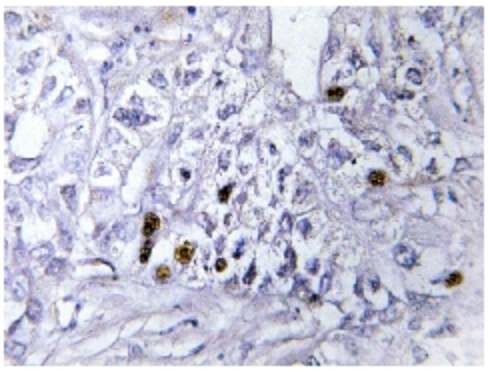
Background: Chromatin assembly factor-1 (CAF-1) is a multisubunit protein complex that comprises three polypeptide subunits known as p150, p60, and p48. CAF-1 is a nucleosome assembly factor that deposits newly synthesized and acetylated histones H3/H4 into nascent chromatin during DNA replication. The p150 subunit of CAF-1 also supports the maintenance of heterochromatin, which requires the synthesis of both new histones and heterochromatin proteins and their orderly assembly during DNA replication. Heterochromatin is characterized as densely coiled chromatin that generally replicates late during S phase, has a low gene density, and contains large blocks of repetitive DNA that is relatively inaccessible to DNA-modifying reagents. In late S phase, p150 directly associates with heterochromatin associated proteins 1 (HP1), HP1α, HP1β and HP1γ. As cells prepare for mitosis, CAF-1 p150 and some HP1 progressively dissociate from heterochromatin, coinciding with the phosphorylation of histone H3. The HP1 proteins reassociate with chromatin at the end of mitosis, as histone H3 is dephosphorylated.

Synonyms: Chromobox protein homolog 5, HP1A, p25, HP1 alpha, HP1-alpha

Product images:



Western blot (WB) analysis of CBX5 antibody at 1/500 dilution Lane 1:HEK293T whole cell lysate Lane 2:Mouse spleen tissue lysate Lane 3:Rat spleen tissue lysate



Immunohistochemistry (IHC) analyzes of HP1-alpha antibody in paraffin-embedded human liver carcinoma tissue.