



## HP1α rabbit pAb

Cat#: orb765438 (Manual)

For research use only. Not intended for diagnostic use.

Product Name HP1α rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse

**Recommended dilutions** Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in

other applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human CBX5. AA range:41-90

Specificity HP1α Polyclonal Antibody detects endogenous levels of HP1α protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Chromobox protein homolog 5

Gene Name CBX5

Cellular localization Nucleus . Chromosome . Chromosome, centromere . Colocalizes with

HNRNPU in the nucleus (PubMed:19617346). Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and

anaphase...

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.





Polyclonal **Clonality** 

Concentration 1 mg/ml

**Observed band** 22kD

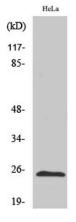
**Human Gene ID** 23468

**Human Swiss-Prot Number** P45973

CBX5; HP1A; Chromobox protein homolog 5; Antigen p25; Heterochromatin protein 1 homolog alpha; HP1 alpha **Alternative Names** 

Background This gene encodes a highly conserved nonhistone protein, which is a member

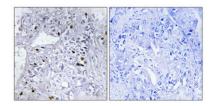
of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008],



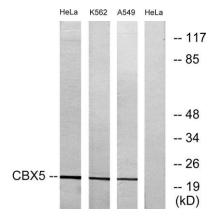
Western Blot analysis of various cells using HP1 $\alpha$  Polyclonal Antibody diluted at 1:1000







Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbe



Western blot analysis of lysates from HeLa, A549, and K562 cells, using CBX5 Antibody. The lane on the right is blocked with the synthesized peptide.