

[KO Validated] Anti-HP1 alpha Rabbit pAb

Purified Rabbit Polyclonal Antibody

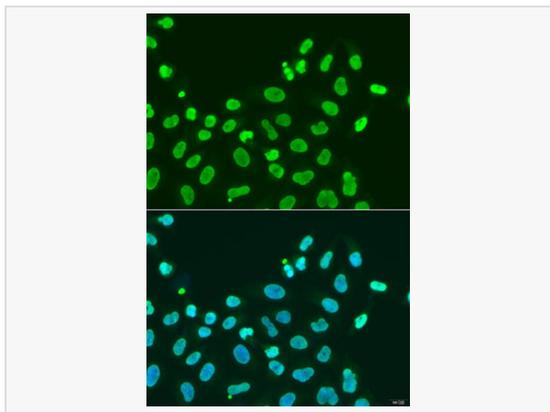
Catalog # P101128

Product Information

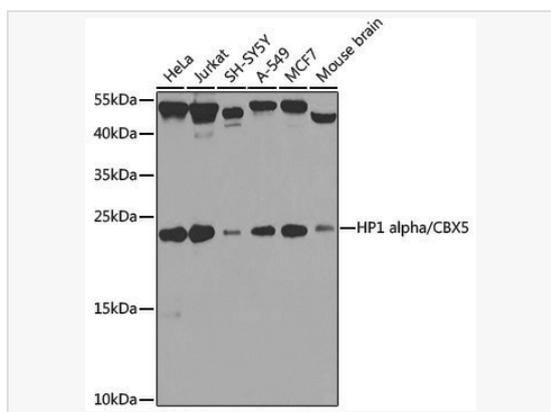
Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:500~1:2,000; IF 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-100 of human HP1 alpha/HP1 alpha/CBX5 (NP_001120794.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-HP1 alpha Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

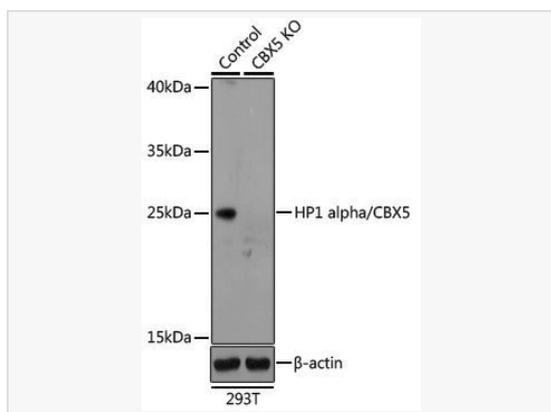
Synonyms	HP1; HP1A; HEL25; HP1 alpha/CBX5.
Calculated MW	Calculated MW: 22 kDa; Observed MW: 22 kDa
Uniprot ID	P45973
Gene ID	23468
Background	This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin 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.



Immunofluorescence analysis of U2OS cells using [KO Validated] HP1 alpha/CBX5 Rabbit pAb (P101128) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Western blot analysis of various lysates using [KO Validated] HP1 alpha/CBX5 Rabbit pAb (P101128) at 1:1,000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Kit. Exposure time: 30s.



Western blot analysis of lysates from wild type (WT) and HP1 alpha/HP1 alpha/CBX5 knockout (KO) 293T cells, using [KO Validated] HP1 alpha/CBX5 Rabbit pAb (P101128) at 1:1,000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Kit. Exposure time: 1s.