

Product datasheet for **AM26739PU-N**

CBX1 Mouse Monoclonal Antibody [Clone ID: 1MOD-1A9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1MOD-1A9
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on paraffin sections: 4 µg/ml (1:50). Microwave pretreatment in citrate buffer is recommended for antigen retrieval. <i>Suggested Positive control:</i> Human / Swine brain cortex.
Reactivity:	Human, Mouse, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant mouse HP1β
Specificity:	This antibody detects HP1β.
Formulation:	Phosphate buffered saline pH 7.2 (PBS) State: Purified State: Lyophilized affinity purified Ig fraction Stabilizer: 5 mg/ml bovine serum albumin (BSA) Preservative: 0.01% Kathon
Reconstitution Method:	Reconstitute by adding 0.5 ml distilled water. This stock solution contains 0.2 mg/ml IgG.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 month or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	chromobox 1
Database Link:	Entrez Gene 10951 Human P83916



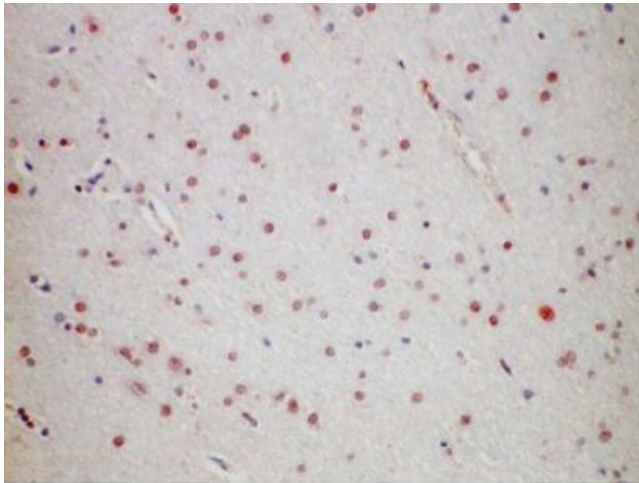
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Background:

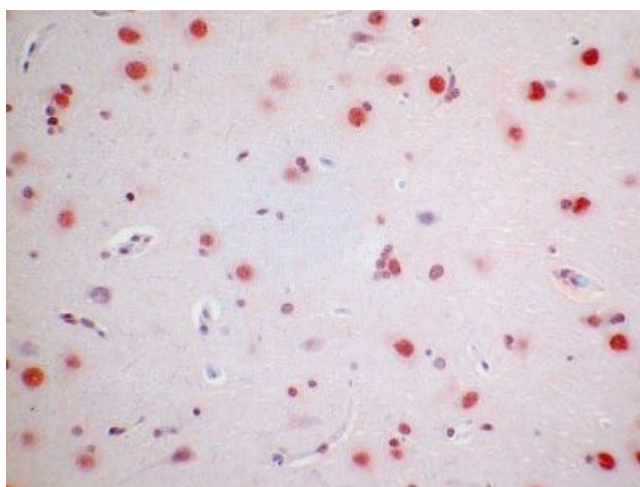
Heterochromatin Protein 1 (HP1) ("Chromobox Homolog", CBX) includes three isoforms in mammals, designated α , β , and γ . HP1 proteins are approximately 25 kDa in size. They are highly conserved adapter proteins with important regulatory functions in the cell nucleus. These functions include notably gene silencing by heterochromatin formation. HP1 proteins are fundamental units of heterochromatin packaging that are enriched at the centromeres and telomeres of nearly all Eukaryotic chromosomes. HP1 β and γ also localize to euchromatic sites in the genome. Members of the HP1 family are characterized by an N-terminal chromodomain and a C-terminal chromoshadow domain, separated by a Hinge region. Chromodomain and chromoshadow domain establish secondary interactions with a large number of other proteins. HP1 proteins are subject to multiple types of post-translational modifications, including phosphorylation, acetylation, methylation, ubiquitination and sumoylation, suggesting multiple means of regulation.

Synonyms:

Chromobox protein homolog 1, M31, Heterochromatin protein p25, HP1Hsbeta, p25beta, HP1-beta, HP1 beta

Product images:

Immunohistochemistry on paraffin sections:
Human brain cortex stained with AM26739PU-N.



Immunohistochemistry on paraffin sections:
Swine brain cortex stained with AM26739PU-N.