
Monoclonal Antibody to Heterochromatin-1 β
Anti human / mouse / porcine HP1 β

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.

Product Number:	T-1436 (Lot 01PO1215)
Clone:	1MOD-1A9
Host species, isotype:	Mouse IgG1 kappa
Quantity:	100 μ g
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Kathon as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: not tested Paraffin sections: 4 μ g/ml (1:50); microwave pretreatment in citrate buffer is recommended for antigen retrieval. Optimal dilutions should be determined by the end user. Suggested positive control: human/swine brain cortex
Immunogen:	Recombinant mouse HP1 β .
Antigen, epitope:	The antigen is HP1 β , the epitope has not been further investigated.

Antigen distribution: The antigen has been described in human brain cortex.
Specificity: **Human:** HP1 β .
Other: mouse and pig.

For *in vitro* research only. This product contains Kathon as a preservative.