



BMA BIOMEDICALS

Monoclonal Antibody to Heterochromatin-1 γ

Anti human / mouse / porcine HP1 γ

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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1437 (Lot 01PO1112)
Clone:	2MOD-1G6
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% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution or aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: not tested Paraffin sections: 4 μ g/ml (1:500); pretreatment in microwave with citrate buffer for antigen retrieval is recommended Optimal dilutions should be determined by the end user

Suggested positive control: human/porcine brain

Please see **www.bma.ch** for protocols and general information

Immunogen:

Recombinant mouse HP1γ

Protein database:

human-P83916

Antigen, epitope:

The antigen is HP1γ from mouse and human.

Antigen distribution:

The antigen has been described in human brain cortex.

Specificity:

Human: HP1γ.

Other: mouse and pig.

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