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Immunotag™ HP1β Monoclonal Antibody

Antibody Specification

Catalog No.	ITM1046
Product Description	Immunotag™ HP1β Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	HP1β
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB
Recommended Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat,Bovine,Chicken,Dog,Pig
Host Species	Mouse
Immunogen	Purified recombinant human HP1β protein fragments expressed in E.coli.
Specificity	HP1β Monoclonal Antibody detects endogenous levels of HP1β protein.
Purification	Affinity purification
Form	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Gene Name	CBX1
Accession No.	P83916 P83917
Alternate Names	CBX1; CBX; Chromobox protein homolog 1; HP1Hsbeta; Heterochromatin protein 1 homolog beta; HP1 beta; Heterochromatin protein p25; M31; Modifier 1 protein; p25beta

Antibody Specification

Description	chromobox 1(CBX1) Homo sapiens 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 protein may play an important role in the epigenetic control of chromatin structure and gene expression. Several related pseudogenes are located on chromosomes 1, 3, and X. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008],
Protein Expression	Brain,Cajal-Retzius cell,Epithelium,Fetal brain cortex,Liver,Liver tumor,Ovary,
Subcellular Localization	chromosome, centromeric region,nuclear chromosome, telomeric region,chromatin,female pronucleus,male pronucleus,nucleus,nucleoplasm,nuclear heterochromatin,pericentric heterochromatin,spindle,chromocenter,
Protein Function	function:Component of heterochromatin. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. Interaction with lamin B receptor (LBR) can contribute to the association of the heterochromatin with the inner nuclear membrane.,online information:Heterochromatin protein 1 entry,PTM:Not phosphorylated.,similarity:Contains 2 chromo domains.,subcellular location:Unassociated with chromosomes during mitosis.,subunit:Homodimer. Interacts directly with CHAF1A, EMSY, LBR, TIF1/TIF1A and TRIM28/TIF1B PXVXL motif via the chromoshadow domain. Interacts directly with histone H3 methylated at 'Lys-9' via the chromo domain. Interacts with SUV39H1 and SETDB1, SUV420H1 and SUV420H2. Interacts with PRDM6.,tissue specificity:In all adult and embryonic tissues.,
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