



Anti-CBX5 monoclonal antibody, clone 4H3-I21-B7 (DCABH-4149)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to HP1 alpha
Antigen Description	Component of heterochromatin that recognizes and binds histone H3 tails methylated at Lys-9 (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when Tyr-41 of histone H3 is phosphorylated (H3Y41ph). Can interact with lamin-B receptor (LBR). This interaction can contribute to the association of the heterochromatin with the inner nuclear membrane. Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.
Specificity	Detects endogenous levels of HP1 alpha and does not cross-react with related proteins.
Immunogen	Recombinant fragment of the Human HP1 alpha protein (P45973) expressed in E.coli.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Mouse, Human
Clone	4H3-I21-B7
Conjugate	Unconjugated
Applications	WB, ELISA, ICC/IF
Positive Control	WB: MCF7, 293T and HeLaNE Cell lysates. ICC: HeLa cells.
Format	Liquid
Size	100 µg

Buffer	pH: 7.40; Preservative: 0.2% Sodium azide; Constituents: 48% Tris glycine, 50% Glycerol, 0.88% Sodium chloride
Storage	store at -20°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	CBX5 chromobox homolog 5 [Homo sapiens]
Official Symbol	CBX5
Synonyms	CBX5; chromobox homolog 5; chromobox homolog 5 (Drosophila HP1 alpha) , chromobox homolog 5 (HP1 alpha homolog, Drosophila); chromobox protein homolog 5; HP1; HP1 alpha homolog (Drosophila); HP1 ALPHA; HP1Hs alpha; HP1-ALPHA; antigen p25; HP1 alpha homol
Entrez Gene ID	23468
Protein Refseq	NP_001120793
UniProt ID	P45973
Chromosome Location	12q13.13
Pathway	Aurora B signaling, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	chromatin binding; enzyme binding; histone deacetylase binding; methylated histone residue binding; protein binding; protein binding, bridging; repressing transcription factor binding;