

## Product datasheet for **TA346905M**

### HP1 alpha (CBX5) Mouse Monoclonal Antibody [Clone ID: 3G2-H10-A6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	3G2-H10-A6
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:1000, IF: 1:300
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	The immunogen for CBX5 antibody: purified recombinant human HP1 alpha protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal antibody in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	26 kDa
Gene Name:	chromobox 5
Database Link:	<a href="#">NP_036249</a> <a href="#">Entrez Gene 12419 Mouse</a> <a href="#">Entrez Gene 23468 Human</a> <a href="#">P45973</a>



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**Background:**

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 encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified.

**Synonyms:**

HEL25; HP1; HP1A