## CBX5 monoclonal antibody, clone 1B10B2

Catalog \# MAB17166 Size 100 ug

Applications


## Western Blot (Cell lysate)

Western blot analysis of Lane 1: HeLa cell; Lane 2: NIH/3T3 cell; Lane 3: K562 cell; Lane 4: MCF-7 cell; Lane 5: Jurkat cell; Lane 6: A431 cell with CBX5 monoclonal antibody.

## Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) CBX5-hlgGFc transfected HEK293 cell lysate.

## Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical staining of paraffin-embedded esophageal cancer tissues with CBX5 monoclonal antibody.


## Immunocytochemistry

Immunocytochemical staining of HeLa cells with CBX5 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).


## Enzyme-linked Immunoabsorbent Assay

ELISA analysis of CBX5 monoclonal antibody, clone 1B10B2.

## Specification

| Product Description | Mouse monoclonal antibody raised against recombinant human CBX5. |
| :--- | :--- |
| Immunogen | Recombinant protein corresponding to amino acid 1-191 of human CBX5 from E. coli. |
| Host | Mouse |
| Theoretical MW (kDa) | 22.2 kDa |
| Reactivity | Human, Mouse |
| Form | IgG1 |
| Isotype | ELISA (1:10000) <br> Western Blot (1:500-1:2000) <br> Immunohistochemistry (1:200-1:1000) <br> Immunocytochemistry (1:200-1:1000) |
| Recommend Usage | Flow Cytometry <br> The optimal working dilution should be determined by the end user. |
| In PBS (0.05\% sodium azide). |  |

## Storage Instruction

Store at $4^{\circ} \mathrm{C}$. For long term storage store at $-20^{\circ} \mathrm{C}$. Aliquot to avoid repeated freezing and thawing.

## Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

## Applications

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- Enzyme-linked Immunoabsorbent Assay ELISA analysis of CBX5 monoclonal antibody, clone 1B10B2.

| Gene Info - CBX5 |  |
| :--- | :--- |
| Entrez GenelD | $\underline{23468}$ |
| Gene Name | CBX5 |
| Gene Alias | HP1, HP1A |
| Gene Description | chromobox homolog 5 (HP1 alpha homolog, Drosophila) |
| Omim ID | $\underline{604478}$ |
| Gene Ontology | $\underline{\text { Hyperlink }}$ |

Gene Summary

This gene encodes a highly conserved nonhistone protein, which is a member of the heterochrom atin protein family. The protein is enriched in the heterochromatin and associated with centromere s . The protein has a single N -terminal chromodomain which can bind to histone proteins via methy lated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for th e homodimerization and interaction with a number of chromatin-associated nonhistone proteins. T he encoded product is involved in the formation of functional kinetochore through interaction with e ssential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alt ernatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq

## Other Designations

HP1-ALPHA|HP1Hs alpha|antigen p25|heterochromatin protein 1 homolog alpha|heterochromatin protein 1-alpha

