CBX3 Polyclonal antibody

Catalog Number: 11650-2-AP

Basic Information

**Catalog Number:** 11650-2-AP

**Size:** 150 μl, Concentration: 650 μg/ml by Nanodrop and 287 μg/ml by Bradford method using BSA as the standard.

**Source:** Rabbit

**Isotype:** IgG

**Immunogen Catalog Number:** AG2251

**GenBank Accession Number:** BC000954

**GeneID (NCBI):** 11335

**Full Name:** chromobox homolog 3 (HP1 gamma homolog, Drosophila)

**Calculated MW:** 21 kDa

**Observed MW:** 22 kDa

**Purification Method:** Antigen affinity purification

**Recommended Dilutions:**

- **WB:** 1:500-1:2000
- **IHC:** 1:20-1:200
- **IF:** 1:50-1:500

**Applications**

**Tested Applications:** IF, IHC, WB, ELISA

**Cited Applications:** chIP, CoIP, IF, IHC, IP, WB

**Species Specificity:** human, mouse, rat

**Cited Species:** human, rat, mouse

*Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0*

**Positive Controls:**

- **WB:** mouse spleen tissue, A375 cells
- **IHC:** human colon cancer tissue,
- **IF:** HepG2 cells,

**Background Information**

The family of Heterochromatin protein 1 (HP1) proteins is a family of highly conserved heterochromatin-associated non-histone chromosomal proteins, which has important functions in nucleus. These functions include gene activation or repression, regulation of binding of cohesion complexes to centromere, sequestration of genes to nuclear periphery, and heterochromatin formation and propagation. Much evidence shows that HP1 proteins interact with numerous proteins including methylated histones, histone methyltransferases and so on. CBX3 is one of the paralogues of HP1 proteins.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xiaoling Cui</td>
<td>36160818</td>
<td>Genes (Basel)</td>
<td>WB, IF</td>
</tr>
<tr>
<td>Xun Huang</td>
<td>30220457</td>
<td>Cell</td>
<td>WB</td>
</tr>
<tr>
<td>Jin Liu</td>
<td>36160750</td>
<td>Genes (Basel)</td>
<td>WB</td>
</tr>
</tbody>
</table>

**Storage**

*Store at -20°C. Stable for one year after shipment.*

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

***20ul sizes contain 0.1% BSA***

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or (312) 455-8498 (outside USA)

E: proteintech@ptglab.com

W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Immunohistochemical analysis of paraffin-embedded human colon cancer using 11650-2-AP (CBX3 antibody) at dilution of 1:100 (under 10x lens).

Mouse spleen tissue were subjected to SDS PAGE followed by western blot with 11650-2-AP (CBX3 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11650-2-AP (CBX3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).