Basic Information

Catalog Number: 11650-2-AP

Size: 43 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG2251

GenBank Accession Number: BC000954
Full Name: Chromobox homolog 3 (HP1 gamma homolog, Drosophila)
Calculated MW: 21 kDa
Observed MW: 22 kDa

Recommended Dilutions:
- WB: 1:500-1:2000
- IP: 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- IHC: 1:200-1:200

Applications

Tested Applications:
- IF, IHC, IP, WB, ELISA

Cited Applications:
- IF, IHC, WB

Species Specificity:
- Human, mouse, rat

Cited Species:
- Human, mouse

Background Information

The family of Heterochromatin protein 1 (HP1) proteins is a family of highly conserved heterochromatin-associated non-histone chromosomal proteins, which have important functions in the 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

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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Guang Yang</td>
<td>26361889</td>
<td>Nat Commun</td>
<td>WB</td>
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<tr>
<td>Seon-Sook Han</td>
<td>24751108</td>
<td>Lung Cancer</td>
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<td>Huayong Zhang</td>
<td>29463246</td>
<td>Gene</td>
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Storage

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

Storage Buffer:
- PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product, please contact:
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.
Selected Validation Data

Immunohistochemical 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.

IP Result of anti-CBX3 (IP: 11650-2-AP 4ug; Detection: 11650-2-AP 1:500) with mouse spleen tissue lysate 400ug.

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)