Basic Information

- **Catalog Number**: 10477-1-AP
- **GenBank Accession Number**: BC026502
- **Recommended Dilutions**: WB 1:500-1:1000; IHC 1:50-1:500
- **Size**: 28 μg/150 μl
- **Source**: Rabbit
- **Isoform**: Full Name: chromatin modifying protein 2A
- **Purification Method**: Antigen affinity purification
- **Immunogen Catalog Number**: AG0719
- **GenBank Accession Number**: BC026502
- **GeneID (NCBI)**: 27243
- **Full Name**: chromatin modifying protein 2A
- **Calculated MW**: 25 kDa
- **Observed MW**: 32 kDa

Applications

- **Tested Applications**: IHC, WB, ELISA
- **Cited Applications**: IF, WB
- **Species Specificity**: human, 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**: HepG2 cells, HEK-293 cells, HeLa cells
  - **IHC**: human liver cancer tissue

Background Information

CHMP2A, also known as Vps2-1, belongs to the chromatin-modifying protein/charged multivesicular body protein (CHMP) family. CHMP2A is a component of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies (MVBs). It has been shown that CHMP2A can interact with and regulate the function of the AAA-ATPase VPS4B (PMID: 15173323). CHMP2A is also reported to be involved in HIV budding (PMID: 21396898; 23051622).

Notable Publications

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<thead>
<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Shiwei Liu</td>
<td>30232450</td>
<td>Nature</td>
<td>IF</td>
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<tr>
<td>Yolanda Olmos</td>
<td>27615283</td>
<td>Curr Biol</td>
<td>IF</td>
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<tr>
<td>Yolanda Olmos</td>
<td>26540713</td>
<td>Nature</td>
<td>WB, IF</td>
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Storage

- **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**
HepG2 cells were subjected to SDS PAGE followed by western blot with 10477-1-AP (CHMP2A Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10477-1-AP (CHMP2A antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10477-1-AP (CHMP2A antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).