### Basic Information
- **Catalog Number:** 25465-1-AP
- **GenBank Accession Number:** BC038704
- **GeneID (NCBI):** 7291
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG21924
- **Size:** 57 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG

### Recommended Dilutions:
- **WB:** 1:500-1:1000
- **IP:** 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- **IHC:** 1:50-1:500
- **IF:** 1:50-1:500

### Tested Applications:
- IF, IHC, IP, WB, ELISA
- **Cited Applications:** ChIP, IHC, WB

### Species Specificity:
- human, mouse

### Cited Species:
- human

### Background Information
Twist-related protein 1 (TWIST1), also named as BH4H4, is a 202 amino acid protein, which contains one bHLH domain. TWIST1 localizes in the nucleus and acts as a transcriptional regulator. TWIST1 inhibits monogenesis by sequestering E proteins and inhibits trans-activation by MEF2. TWIST1 is expressed in subset of mesodermal cells. The antibody reacts specifically with twist1 protein.

### Notable Publications
<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Wang Chengye</td>
<td>20362837</td>
<td>Oncotarget</td>
<td>WB</td>
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<tr>
<td>Jingjing Wu</td>
<td>2902759</td>
<td>J Cell Mol Med</td>
<td>WB</td>
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<tr>
<td>Junqing Guo</td>
<td>29496931</td>
<td>Mol Ther Nucleic Acids</td>
<td>WB, chIP</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.**
**Selected Validation Data**

**Immunohistochemistry**

- Paraffin-embedded human liver cancer tissue slide using 25465-1-AP (TWIST1-specific antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).
- Paraffin-embedded human pancreas cancer tissue slide using 25465-1-AP (TWIST1-specific antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).
- Immunofluorescent analysis of 4% PFA fixed HepG2 cells using 25465-1-AP (TWIST1-specific antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

**Western Blotting**

- MDA-MB-453s cells were subjected to SDS PAGE followed by western blot with 25465-1-AP (TWIST1-specific antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.