

For Research Use Only

# TBX4/5 Polyclonal antibody

Catalog Number: 13178-1-AP **11 Publications**



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>13178-1-AP       | <b>GenBank Accession Number:</b><br>BC027942 | <b>Purification Method:</b><br>Antigen affinity purification      |
| <b>Size:</b><br>273 µg/ml                  | <b>GeneID (NCBI):</b><br>6910                | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IF 1:10-1:100 |
| <b>Source:</b><br>Rabbit                   | <b>UNIPROT ID:</b><br>Q99593                 |   |
| <b>Isotype:</b><br>IgG                     | <b>Full Name:</b><br>T-box 5                 |   |
| <b>Immunogen Catalog Number:</b><br>AG3845 | <b>Calculated MW:</b><br>518 aa, 57 kDa      |   |
|  | <b>Observed MW:</b><br>58 kDa                |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IF/ICC, WB, ELISA | <b>Positive Controls:</b><br>WB : HeLa cells, HepG2 cells, MCF-7 cells<br>IF : HepG2 cells, |
| <b>Cited Applications:</b><br>WB, IF             |   |
| <b>Species Specificity:</b><br>human, mouse, rat |   |
| <b>Cited Species:</b><br>human, mouse            |   |

## Background Information

T-box genes encode a family of transcription factors that have been identified in all metazoans and which play diverse roles during embryonic development. TBX5, a member of T-box family, has an essential role in the initiation of limb outgrowth and heart development. Genetic variation near TBX5 that associates with PR and/or QRS interval variation, which suggests that TBX5 plays a role in CCS function in the general population. Because 77 % amino acid sequence of TBX5 is identical to TBX4, this antibody recognizes both TBX4 and TBX5.

## Notable Publications

| Author        | Pubmed ID | Journal             | Application |
|---------------|-----------|---------------------|-------------|
| De-Gang Wang  | 34490705  | Am J Med Genet A    | IF          |
| Zhentaο Zhang | 31628386  | Sci Rep             | WB          |
| Zhihua Ren    | 35609006  | Environ Sci Technol | WB          |

## Storage

**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

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

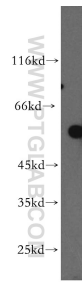
T: 4006900926

E: Proteintech-CN@ptglab.com

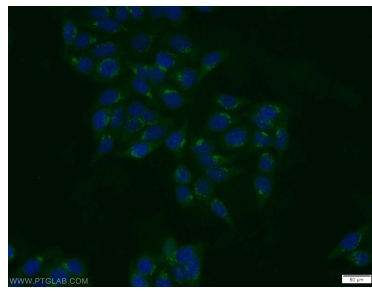
W: ptgcn.com

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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 13178-1-AP (TBX5 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 13178-1-AP (TBX5 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).