

For Research Use Only

# TCF12 Monoclonal antibody, PBS Only



Catalog Number: 67523-1-PBS

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>67523-1-PBS                     | <b>GenBank Accession Number:</b><br>BC050556 | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug, Concentration: 1mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>6938                | <b>CloneNo.:</b><br>1B8D4                             |
| <b>Source:</b><br>Mouse                                   | <b>UNIPROT ID:</b><br>Q99081                 |   |
| <b>Isotype:</b><br>IgG2a                                  | <b>Full Name:</b><br>transcription factor 12 |   |
| <b>Immunogen Catalog Number:</b><br>AG6287                | <b>Calculated MW:</b><br>73 kDa              |   |
|   | <b>Observed MW:</b><br>80 kDa                |   |

## Applications

**Tested Applications:**  
Indirect ELISA, WB

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

## Background Information

The product of TCF12 gene (TCF12, also called HTF4 or HEB) is a member of helix-loop-helix (HLH) protein family [PMID:22130667]. TCF12 is a transcriptional regulator that involved in the initiation of neuronal differentiation. It's also known as E proteins, and activates transcription by binding to the E box (5'-CANNTG-3'), because of their direct DNA (E-box) binding ability [PMID: 19204326]. TCF12 was shown to suppress E-cadherin expression during the early stages of renal tubular epithelial cell dedifferentiation [PMID:17202424].

## Storage

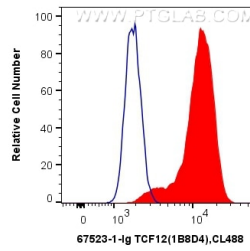
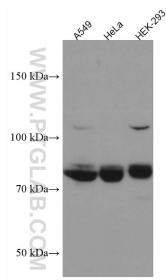
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

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 1(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.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67523-1-Ig (TCF12 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67523-1-PBS in a different storage buffer formulation.

1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.5 ug Anti-Human TCF12 (67523-1-Ig, Clone:1B8D4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 67523-1-PBS in a different storage buffer