

## Rabbit TCF12 Polyclonal Antibody | anti-TCF12 antibody

Anti-TCF12 Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY                                                                                             | APPLICATIONS                                                                |
|-----------|--------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| AAA254644 | Rabbit | Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology) | Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

TCF12; Polyclonal Antibody; Anti-TCF12 Antibody; Rabbit Polyclonal; TCF12 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-bHLHb20 Antibody; Anti-CRS3 Antibody; Anti-HEB Antibody; Anti-HsT17266 Antibody; Anti-HTF4 Antibody; anti-TCF12 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                      | Human<br>Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)                                                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                         |
| Specificity                                     | Human TCF12                                                                                                                                                                                                                                        |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                       |
| Form/Format                                     | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                           |
| Applicable Applications for anti-TCF12 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                  |
| Immunogen                                       | A synthetic peptide corresponding to the N-terminus of the Human TCF12                                                                                                                                                                             |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                     | Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human TCF12, and purified by antigen affinity chromatography.                                                                                        |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of TCF12 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human TCF12 polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to.



#### IHC (Immunohistochemistry)

Immunochemical staining of human TCF12 in human breast carcinoma with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



#### IHC (Immunohistochemistry)

Immunochemical staining of human TCF12 in human colon carcinoma with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



#### WB (Western Blot)

Anti-TCF12 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: Jurkat Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 73 kDa Observed band size: 85 kDa

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-TCF12 antibody</b> | Transcription factor 12 (TCF12) is a member of the basic helix-loop-helix (bHLH) E protein family, which recognizes the E-box sequence and is responsible for cellular development and differentiation. TCF12 has been reported to function as an oncogene or a tumor suppressor gene in the progression of various malignant tumors. TCF12 is a poor prognostic factor of ovarian cancer and that targeting TCF12 may be a new therapeutic strategy for ovarian cancer treatment. TCF12 may function as a potential therapeutic target for gastric cancer (GC). |
| <b>References</b>                                          | Yang J, et al. (2019) Tcf12 promotes the tumorigenesis and metastasis of hepatocellular carcinoma via upregulation of cxcr4 expression. Theranostics 9 (20): 5810-5827. Labreche K, et al. (2015) Tcf12 is mutated in anaplastic oligodendroglioma. Nat Commun 6 7207. Gao S, et al. (2019) Tcf12 overexpression as a poor prognostic factor in ovarian cancer. Pathol Res Pract 215 (9): 152527.                                                                                                                                                                |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 1708332                                                                                                                                                                                          |
| NCBI GeneID                      | 6938                                                                                                                                                                                             |
| UniProt Accession #              | Q99081; Q7Z3D9; Q86TC1; Q86VM2                                                                                                                                                                   |
| Molecular Weight                 | 682                                                                                                                                                                                              |
| NCBI Official Full Name          | Transcription factor 12                                                                                                                                                                          |
| NCBI Official Synonym Full Names | transcription factor 12                                                                                                                                                                          |
| NCBI Official Symbol             | TCF12                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | HEB; CRS3; HTF4; bHLHb20; HsT17266                                                                                                                                                               |
| NCBI Protein Information         | transcription factor 12; TCF-12; E-box-binding protein; DNA-binding protein HTF4; transcription factor HTF-4; helix-loop-helix transcription factor 4; class B basic helix-loop-helix protein 20 |
| UniProt Protein Name             | Transcription factor 12                                                                                                                                                                          |
| UniProt Gene Name                | <b>TCF12</b>                                                                                                                                                                                     |
| UniProt Synonym Gene Names       | BHLHB20; HEB; HTF4; TCF-12; bHLHb20                                                                                                                                                              |
| UniProt Entry Name               | HTF4_HUMAN                                                                                                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tcf12-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/254644>