

# Anti-ETV6/Tel Picoband Antibody

Catalog # ABO12827

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, E                                                                                                   |
| <b>Primary Accession</b> | <a href="#">P41212</a>                                                                                         |
| <b>Host</b>              | Rabbit                                                                                                         |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                              |
| <b>Clonality</b>         | Polyclonal                                                                                                     |
| <b>Format</b>            | Lyophilized                                                                                                    |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for ETV6/Tel detection. Tested with WB, IHC-P, Direct ELISA in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                           |

## Additional Information

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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 2120                                                                                                                                                                                    |
| <b>Other Names</b>              | Transcription factor ETV6, ETS translocation variant 6, ETS-related protein Tel1, Tel, ETV6, TEL, TEL1                                                                                  |
| <b>Calculated MW</b>            | 53000                                                                                                                                                                                   |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml<br><br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml<br><br>Direct ELISA, 0.1-0.5 µg/ml                                                      |
| <b>Subcellular Localization</b> | Nucleus.                                                                                                                                                                                |
| <b>Tissue Specificity</b>       | Ubiquitous.                                                                                                                                                                             |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                               |
| <b>Contents</b>                 | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                        |
| <b>Immunogen</b>                | E. coli-derived human ETV6/Tel recombinant protein (Position: E327-Q448).                                                                                                               |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins.                                                                                                                                                |
| <b>Storage</b>                  | At -20° C; for one year. After r° Constitution, at 4° C; for one month. It° Can also be aliquotted and stored frozen at -20° C; for a longer time. Avoid repeated freezing and thawing. |

## Protein Information

|                   |                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Name              | ETV6                                                                                                                              |
| Synonyms          | TEL, TEL1                                                                                                                         |
| Function          | Transcriptional repressor; binds to the DNA sequence 5'- CCGGAAGT-3'. Plays a role in hematopoiesis and malignant transformation. |
| Cellular Location | Nucleus.                                                                                                                          |
| Tissue Location   | Ubiquitous.                                                                                                                       |

## Background

Transcription factor ETV6 is a protein that in humans is encoded by the ETV6 gene. This gene encodes an ETS family transcription factor. The product of this gene contains two functional domains: a N-terminal pointed (PNT) domain that is involved in protein-protein interactions with itself and other proteins, and a C-terminal DNA-binding domain. Gene knockout studies in mice suggest that it is required for hematopoiesis and maintenance of the developing vascular network. This gene is known to be involved in a large number of chromosomal rearrangements associated with leukemia and congenital fibrosarcoma.

## Images

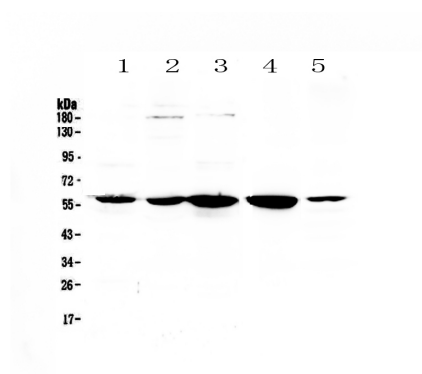


Figure 1. Western blot analysis of ETV6/Tel using anti-ETV6/Tel antibody (ABO12827). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human Hela cell lysates, Lane 3: human 22RV1 cell lysates, Lane 4: human SKOV cell lysates, Lane 5: human A549 cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ETV6/Tel antigen affinity purified polyclonal antibody (Catalog # ABO12827) at 0.5  $\mu$ g/mL overnight at 4  $^{\circ}$ C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ETV6/Tel at approximately 59KD. The expected band size for ETV6/Tel is at 53KD.



Figure 2. IHC analysis of ETV6/Tel using anti-ETV6/Tel antibody (ABO12827).ETV6/Tel was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1  $\mu$ g/ml rabbit anti-ETV6/Tel Antibody (ABO12827) overnight at 4  $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30

minutes at 37 °C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

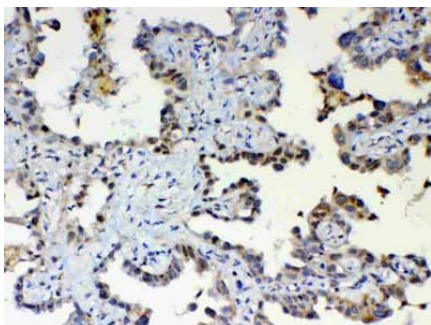


Figure 3. IHC analysis of ETV6/Tel using anti-ETV6/Tel antibody (ABO12827).ETV6/Tel was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-ETV6/Tel Antibody (ABO12827) overnight at 4 °C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 °C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

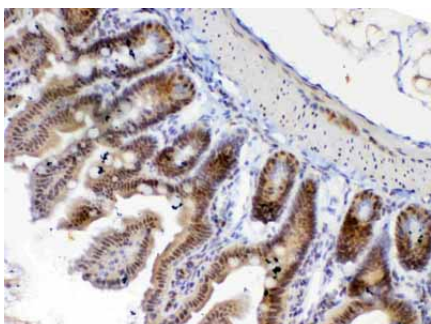


Figure 4. IHC analysis of ETV6/Tel using anti-ETV6/Tel antibody (ABO12827).ETV6/Tel was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-ETV6/Tel Antibody (ABO12827) overnight at 4 °C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 °C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

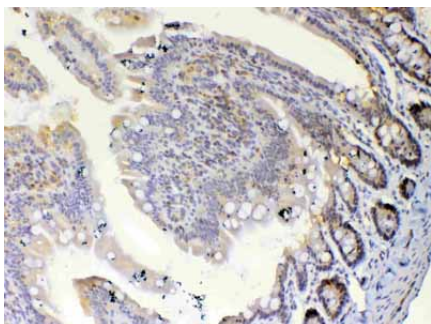


Figure 5. IHC analysis of ETV6/Tel using anti-ETV6/Tel antibody (ABO12827).ETV6/Tel was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-ETV6/Tel Antibody (ABO12827) overnight at 4 °C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 °C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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