

Anti-Human ETV6, monoclonal (clone R1092.1.1A7)

Recommended name: Transcription factor ETV6

Alternative name(s): ETS translocation variant 6; ETS-related protein Tel1; Short name: Tel

Cat. No. m15-248
Lot. No. 20150924.IJVR

Quantity: 100 µg
Storage: -20 °C



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

DATASHEET Page 1 of 2

UniProt / NCBI Summary

UniProt

Primary Accession # [P41212](#)
Secondary Accession # [Q9UMF6](#); [Q9UMF7](#)

NCBI

GI # [730927](#)
GenID [2120](#)
Accession # [P41212.1](#)
GenBank Nucleotide # [n/a](#)

Molecular Weight 53,000 Da (452 aa)

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.

Cellular Component: cytoplasm; nucleolus

Continued on page 2.

Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG2b

Clonality: monoclonal; ID R1092.1.1A7

Immunogen: recombinant protein corresponding to aa residues 338-443 of human ETV6

Purification: affinity-chromatography using Protein G

Formulation: 30% glycerol, 1x PBS, 0.02% sodium azide

Specificity: monospecific for human ETV6; see microarray analysis below

Reactivity: human

Stability/Storage: 12 months long term: -20 °C; short term: 4 °C; avoid freeze-thaw cycles; aliquot as required

Handling Notes: small volumes of antibody may occasionally become entrapped in the seal of the product vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container cap.

Tested Research Applications

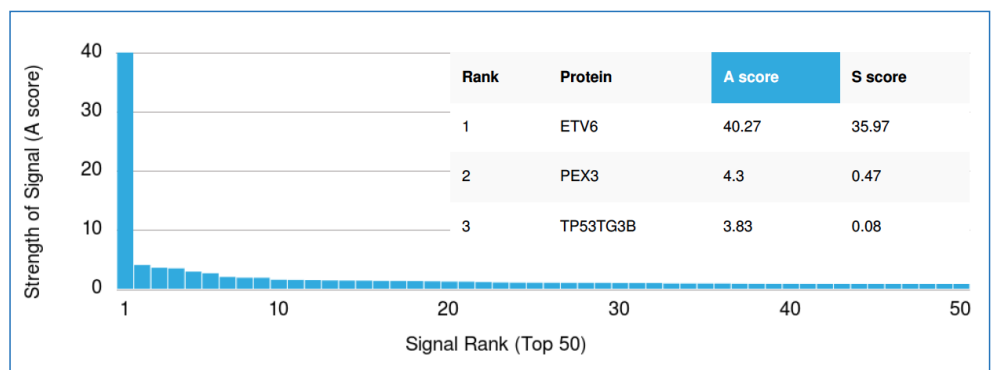
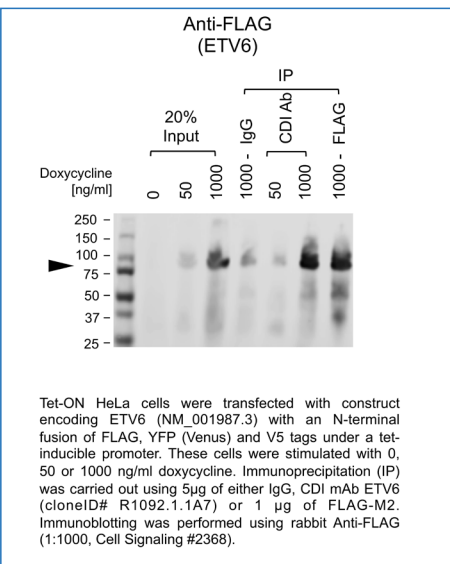
Immunoprecipitation: recommended; see below.

ChIP-Seq: recommended; see page 2

Western Blot: tested on cells transfected with a construct encoding ETV6; utility on native cells under evaluation

Octet: Recommended.

Quality Assurance



Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human ETV6 (clone R1092.1.1A7) was analyzed using the CDI HuProt™ Human Proteome Microarray.

For more information on A/S scores and how they relate to specificity, see page 2.

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Continued from page 1.

General Reference:

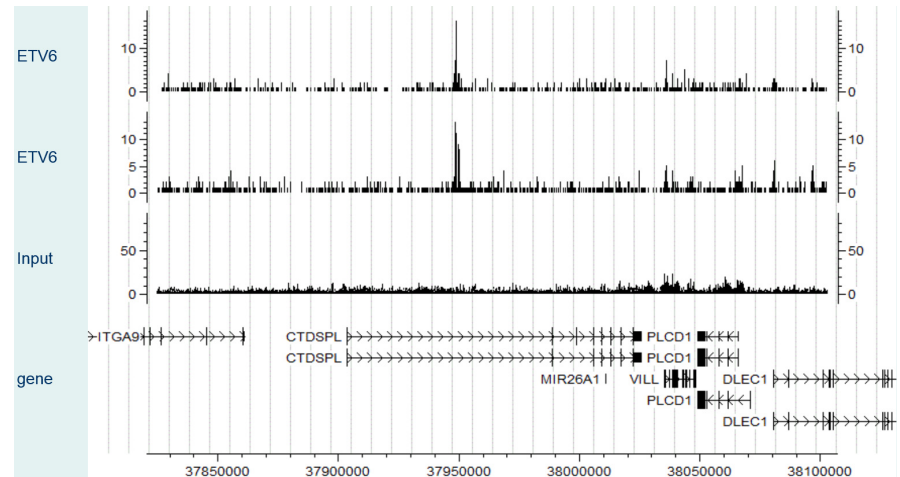
Gancheva K, Virchis A, Howard-Reeves J, Cross NC, Brazma D, Grace C, Kotzampalitis P, Partheniou F, Nacheva E (2013) Myeloproliferative neoplasm with ETV6-ABL1 fusion: a case report and literature review. *Mol Cytogenet* 6:39. [[PubMed](#)]

De Braekeleer E, Douet-Guilbert N, Morel F, Le Bris MJ, Basinko A, De Braekeleer M (2012) ETV6 fusion genes in hematological malignancies: a review. *Leuk Res* 36:945-961. [[PubMed](#)]

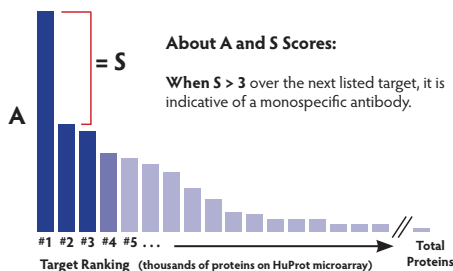
Park J, Kim M, Lim J, Kim Y, Han K, Kim JS, Lee S, Kim HJ, Min WS (2013) Variant of ETV6/ABL1 gene is associated with leukemia phenotype. *Acta Haematol* 129:78-82. [[PubMed](#)]

Tested Research Applications

ChIP-Seq: Recommended



The ChIP was performed with chromatin from 10 million GM12878 cells and 3 µg of Anti-ETV6 (clone ID # R1092.1.1A7) antibody. The ChIP DNA was sequenced on an Illumina HiSeq platform and read counts were calculated at consecutive 100 bp bins across the human genome hg19. Normalized read-count levels for ChIP-seq of ETV6 (R1092.1.1A7) and control (Input) around the CTDSPL and CX3CR1 loci are displayed in the CisGenome browser.



Statistical Analysis: Thousands of GenePix data points (from the microarray) are analyzed in terms of signal strength and ranked accordingly.

SUMMARY: The A-score indicates the number of standard deviations above background seen for the mean signal bound by the target antigen. The S-score represents the difference between the A-score of the target antigen and the next best hit on the array. S-scores **greater than 3 standard deviations over the next listed target** are deemed statistically significant and indicate **highly specific antibodies**. More info at cdi-lab.com/HighSpec.html

The development of this antibody was supported by the National Institutes of Health Protein Capture Reagent Program under award U54HG06434 to CDI Laboratories and Johns Hopkins University.

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