

ETV1 Antibody / ETS translocation variant 1 Antibody (FY13555)

Catalog No.	Formulation	Size
FY13555	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	P50549
Applications	Western Blot : 0.5-1ug/ml ELISA : 0.1-0.5 ug/ml
Limitations	The ETV1 Antibody / ETS translocation variant 1 Antibody is available for research use only.

ETV1 Antibody by WB in human cell lines. Western blot analysis using ETS translocation variant 1 Antibody detects a band near 45 kDa in human PC-3 (lane 1), K562 (lane 2), SH-SY5Y (lane 3) and HeLa (lane 4) whole-cell lysates. The observed band migrates near 45 kDa, below the approximately 55 kDa calculated molecular weight of canonical ETV1. Alternative ETV1 isoforms and N-terminally truncated proteins have been documented in published studies, although the detected band has not been confirmed as a specific isoform. Reduced lysates containing 30 ug protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. Membranes were blocked with 5% nonfat milk and incubated with primary antibody at 0.5 ug/mL overnight at 40C. Bound antibody was visualized using HRP-conjugated secondary antibody and chemiluminescence.

Description

ETV1 Antibody / ETS translocation variant 1 Antibody detects ETV1, an ETS-family transcription factor also known as ER81 and belongs to the PEA3 subgroup alongside ETV4 and ETV5. The protein contains a conserved ETS DNA-binding domain that recognizes purine-rich regulatory sequences in promoters and enhancers. Its transcriptional output depends on the surrounding regulatory elements, cooperating factors, and chromatin environment. ETV1 contributes to gene-expression programs involved in differentiation, tissue development, and cell movement.

ETV1 has important functions in nervous-system development, including the differentiation and connectivity of selected neuronal populations. In the peripheral nervous system, ER81 is involved in the maturation of proprioceptive sensory neurons and the establishment of their appropriate spinal connections. ETV1 also participates in developmental programs outside the nervous system, illustrating how the same DNA-binding factor can regulate distinct sets of genes depending on cell identity.

Mitogen-activated protein kinase signaling can influence ETV1 activity and stability. Altered ETV1 expression or genomic rearrangements have been described in several malignancies. In prostate cancer, ETS-family gene rearrangements can place ETV1 under the control of aberrant regulatory elements, leading to inappropriate expression. ETV1 is also implicated in gastrointestinal stromal tumor biology, where it helps maintain a lineage-associated transcriptional program and cooperates with oncogenic KIT signaling. These relationships are context-dependent and do not imply that ETV1 has the same role in every tumor type.

Understanding ETV1 therefore requires attention to both its DNA-binding function and the upstream signals that determine where and when it acts. Changes in ETV1 activity can alter downstream transcriptional networks without changing the underlying DNA sequence. NSJ Bioreagents provides the ETV1 Antibody as a target-focused reagent within this broader area of transcription-factor biology. An ETV1 Antibody can support investigation of the molecular programs associated with ETS-family regulation.

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Application Notes

An appropriate dilution of the ETV1 Antibody / ETS translocation variant 1 Antibody should be determined empirically before routine use.

Immunogen

The ETV1 Antibody was generated using e. coli-derived human ETV1 recombinant protein (amino acids S104-Q214).

Storage

The ETV1 Antibody is stable for up to one month at 4oC after reconstitution. For longer-term storage, aliquot and store at -20oC for up to six months. Do not repeatedly freeze and thaw.

Alternate Names

ETV1 antibody, ETS translocation variant 1 antibody, ETS variant transcription factor 1 antibody, ER81 antibody, Ets-related protein 81 antibody, ETV1 rabbit polyclonal antibody