Datasheet for ABIN952133

anti-ETV5 antibody (N-Term)

2 Images

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Overview

Quantity:	0.4 mL
Target:	ETV5
Binding Specificity:	AA 11-39, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ETV5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 11-39 amino acids from the N-terminal region of Human ETV5.
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human ETV5 / ERM (N-term).
Purification:	Affinity Chromatography on Protein A

Target Details

Target:	ETV5
Alternative Name:	ETV5 / ERM (ETV5 Products)
Background:	The ETS family of transcription factors, characterized by an evolutionarily conserved DNA-

Target Details

	binding domain, regulates expression of more than 300 target genes by binding to a purine-rich GGAA/T core sequence. Depending on the cellular context, they can function as transactivators or transrepressors. Ets proteins have been implicated in regulation of gene expression during a variety of biological processes, including growth control, transformation, T-cell activation, and developmental programs in many organisms. Signals regulating cell growth are transmitted from outside the cell to the nucleus by growth factors and their receptors, G-proteins, kinases and transcription factors. It was shown that ETS signal transduction is implicated in hematopoiesis and angiogenesis at the earliest stages of embryogenesis, and is later involved in tissue development. Deregulated expression and/or formation of chimeric fusion proteins of the ETS family due to proviral insertion or chromosome translocation is associated with leukemias and with specific types of solid tumors. Among the multiple Ets proteins, the PEA3 group consists of ETV1 (Ets variant gene 1, also called ER81), ETV4 (also called PEA3) and ETV5 (also called ERM). All three members are 95 % identical in the ETS domain and more than 85 % in the acidic transactivation domain. Several studies suggest that the PEA3 group proteins are involved in intestinal tumors, gastric cancer, and breast cancer metastasis. In nearly all Ewing's sarcoma tumors, EWS, which encodes a RNA-binding protein, is fused by chromosomal translocation to an Ets gene, including FLI, ERG, ETV4, and ETV1. This results in the expression of chimeric proteins that may be important in tumor cell transformation. Recently, it was reported that TMPRSS2, an AR-regulated gene, is fused by translocation to the ETV1, ERG, or ETV4 gene in a subset of prostate cancers. These findings suggest an important role for PEA3 proteins in prostate cancer. In addition Ets family members have been correlated to tumor progression by upregulating the expression of matrix-degrading proteases. The acquisition of a migratory phenotype by the epithelial tumor cells together with the remodeling of the extracellular matrix must accompany the process of cancer cell invasion. Indeed, ETV5 has been shown to act through matrix metalloproteinase-2 gelatinolytic activity to confer invasive capabilities, associated with an initial switch to myometrial infiltration.Synonyms: ETS translocation variant 5, Ets-related protein ERM
Molecular Weight:	57838 Da
Gene ID:	2119
NCBI Accession:	NP_004445
Pathways:	Synaptic Membrane, Skeletal Muscle Fiber Development

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.

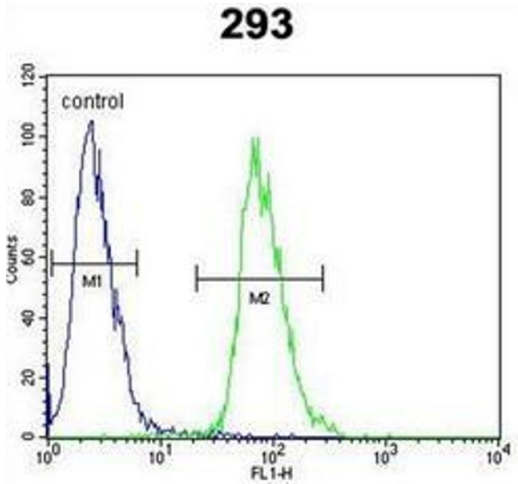
Application Details

Restrictions:	For Research Use only

Handling

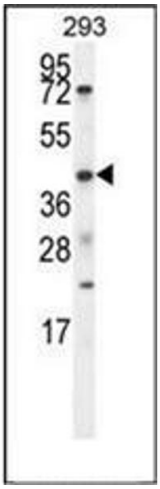
Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Flow Cytometry

Image 1. Flow cytometric analysis of 293 cells using ETV5 / ERM Antibody (N-term) Cat.-No AP51473PU-N (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of ETV5 / ERM Antibody (N-term) in 293 cell line lysates (35ug/lane). This demonstrates the ETV5 antibody detected the ETV5 protein (arrow).