

**Product Name: ER81 Rabbit Polyclonal Antibody****Catalog #: APRab10560**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	60kDa

**Antigen Information**

<b>Gene Name</b>	ETV1
<b>Alternative Names</b>	ETV1; ER81; ETS translocation variant 1; Ets-related protein 81
<b>Gene ID</b>	2115.0
<b>SwissProt ID</b>	P50549
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ER81. AA range:10-59

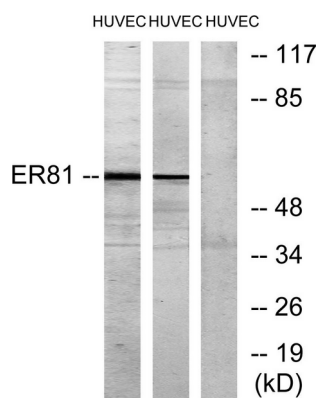
**Background**

This gene encodes a member of the ETS (E twenty-six) family of transcription factors. The ETS proteins regulate many target

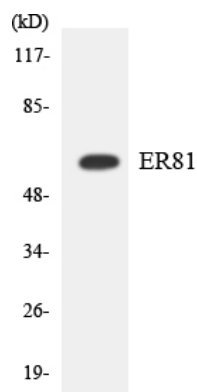
genes that modulate biological processes like cell growth, angiogenesis, migration, proliferation and differentiation. All ETS proteins contain an ETS DNA-binding domain that binds to DNA sequences containing the consensus 5'-CGGA[AT]-3'. The protein encoded by this gene contains a conserved short acidic transactivation domain (TAD) in the N-terminal region, in addition to the ETS DNA-binding domain in the C-terminal region. This gene is involved in chromosomal translocations, which result in multiple fusion proteins including EWS-ETV1 in Ewing sarcoma and at least 10 ETV1 partners (see PMID: 19657377, Table 1) in prostate cancer. In addition to chromosomal rearrangement, this gene is overexpressed in prostate cancer, melanoma and gastrointestinal stromal tumor. Multiple altedisease:A chromosomal aberration involving ETV1 is a cause of Ewing sarcoma [MIM:133450]. Translocation t(7;22)(p22;q12) with EWS.,function:Transcriptional activator that binds to DNA sequences containing the consensus pentanucleotide 5'-CGGA[AT]-3',PTM:Sumoylated.,similarity:Belongs to the ETS family.,similarity:Contains 1 ETS DNA-binding domain.,tissue specificity:Very highly expressed in brain, highly expressed in testis, lung and heart, moderately in spleen, small intestine, pancreas and colon, weakly in liver, prostate and thymus, very weakly in skeletal muscle, kidney and ovary and not in placenta and peripheral blood leukocytes.,

## Research Area

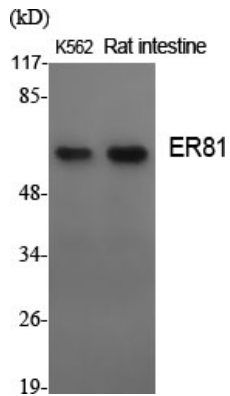
## Image Data



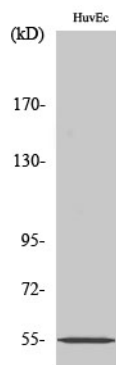
Western blot analysis of lysates from HUVEC cells, treated with PMA 125ng/ml 30', using ER81 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using ER81 antibody.



Western Blot analysis of various cells using ER81 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .



Western Blot analysis of HuvEc cells using ER81 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .