



ER81 Monoclonal Antibody

Catalog No	YP-Ab-00970
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Gene Name	ETV1
Immunogen	Purified recombinant fragment of ER81 (aa1-191) expressed in E. Coli.
Specificity	ER81 Monoclonal Antibody detects endogenous levels of ER81 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide, 0.5% BSA, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ER81;ETS translocation variant 1;Ets-related protein 81;ETV1
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus .
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.
Function	disease: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.,



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 alte

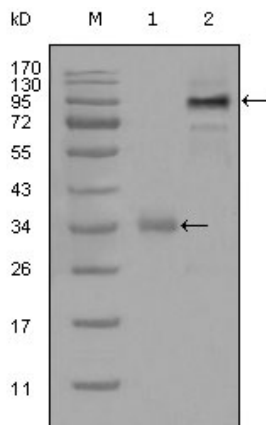
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using ER81 Monoclonal Antibody against truncated Trx-ETV1 recombinant protein (1) and full-length ETV1 (aa1-477)-hIgGfc transfected CHO-K1 cell lysate(2).