

## ER81 Monoclonal Antibody

<b>Catalog No :</b>	YM0239
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	ER81
<b>Fields :</b>	>>Transcriptional misregulation in cancer
<b>Gene Name :</b>	ETV1
<b>Protein Name :</b>	ETS translocation variant 1
<b>Human Gene Id :</b>	2115
<b>Human Swiss Prot No :</b>	P50549
<b>Mouse Swiss Prot No :</b>	P41164
<b>Immunogen :</b>	Purified recombinant fragment of ER81 (aa1-191) expressed in E. Coli.
<b>Specificity :</b>	ER81 Monoclonal Antibody detects endogenous levels of ER81 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	55kD
<b>P References :</b>	1. Neoplasia. 2006 Oct;8(10):826-32.

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2. Cancer Genet Cytogenet. 2008 May;183(1):21-7.

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**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

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**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.,

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**Subcellular Location :**

Nucleus .

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**Expression :**

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.

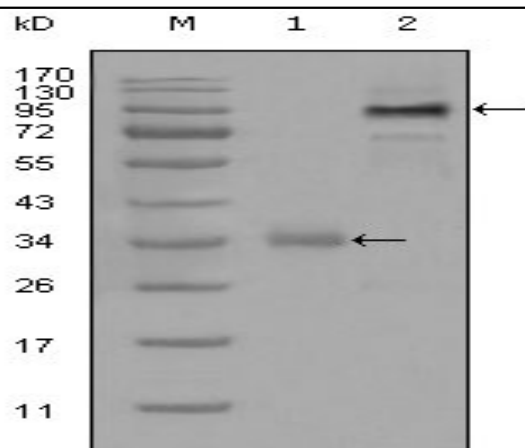
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**Sort :**

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**Products Images**



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