



Rabbit Anti-ER81 antibody

SL11745R

Product Name:	ER81
Chinese Name:	转录因子ER81蛋白抗体
Alias:	DKFZp781L0674; ER81; ER81 protein; ETS translocation variant 1; ets variant gene 1; Ets-related protein 81; Etsrp81; ETV 1; ETV1; ETV1_HUMAN; MGC104699; MGC120533; MGC120534.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ER81:21-120/477
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Several members of the Ets gene family encode sequence-specific DNA binding proteins that recognize DNA sequences with a centrally located 5'-GGAA-3' element. All of the Ets proteins recognize the same central core sequence but each protein interacts with unique sequences that flank this core. PEA3 binds the motif 5'-AGGAAG-3', while ER81 (also designated ETV1) binds the motif 5'-CGGAA/T-3'. PEA3 is expressed at

readily detectable levels in cells of epithelial and fibroblastic origin. Unlike other members of the Ets family, including Ets-1 and Ets-2, PEA3 is not expressed in hematopoietic cells. ER81 is highly expressed in brain, testis, lung and heart. ER81 is also moderately expressed in spleen, pancreas, colon and small intestine. During development, ER81, PEA3 and ERM display unique expression patterns which suggest these transcriptional factors play an important role in organogenesis. ERK-1 activates ER81 transcriptional activity, while MAPKAP kinase 2 inhibits ER81.

Function:

Transcriptional activator that binds to DNA sequences containing the consensus pentanucleotide 5'-CGGA[AT]-3'.

Subcellular Location:

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.

Post-translational modifications:

Sumoylated.

DISEASE:

Defects in ETV1 are a cause of Ewing sarcoma (ES) [MIM:612219]. A highly malignant, metastatic, primitive small round cell tumor of bone and soft tissue that affects children and adolescents. It belongs to the Ewing sarcoma family of tumors, a group of morphologically heterogeneous neoplasms that share the same cytogenetic features. They are considered neural tumors derived from cells of the neural crest. Ewing sarcoma represents the less differentiated form of the tumors. Note=A chromosomal aberration involving ETV1 is found in patients with Erwing sarcoma. Translocation t(7;22)(p22;q12) with EWSR1.

Similarity:

Belongs to the ETS family.
Contains 1 ETS DNA-binding domain.

SWISS:

P50549

Gene ID:

2115

Database links:

[Entrez Gene: 395748](#)Chicken

[Entrez Gene: 540846](#)Cow

[Entrez Gene: 475246](#)Dog

[Entrez Gene: 2115](#)Human

[Entrez Gene: 14009](#)Mouse

[Entrez Gene: 362733](#)Rat

[Omin: 600541](#)Human

[SwissProt: Q2KIC2](#)Cow

[SwissProt: P50549](#)Human

[SwissProt: P41164](#)Mouse

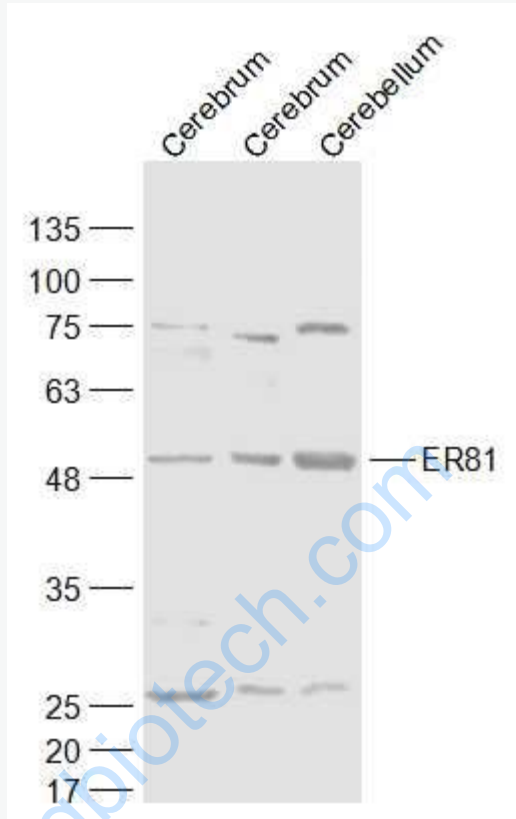
[Unigene: 22634](#)Human

[Unigene: 4866](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Cerebrum (Rat) Lysate at 40 ug

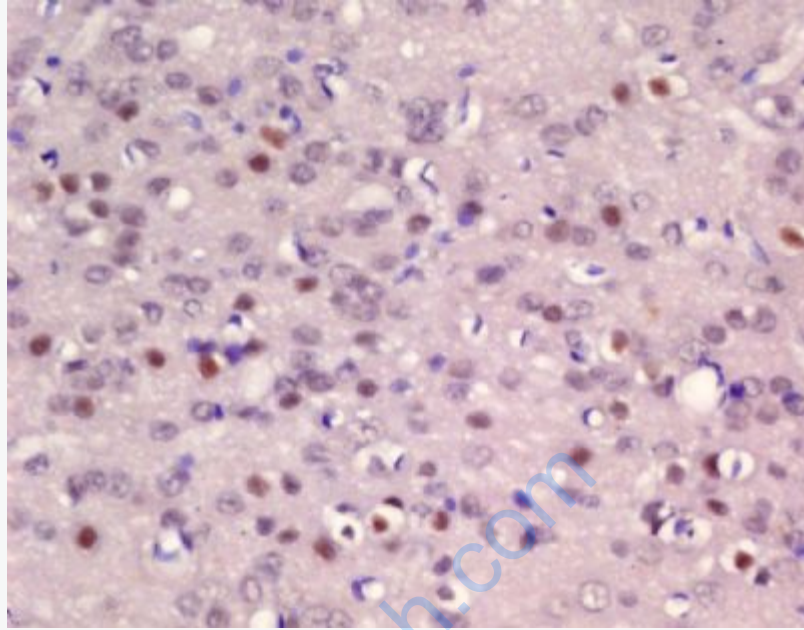
Cerebellum (Mouse) Lysate at 40 ug

Primary: Anti-ER81 (SL11745R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ER81 Polyclonal Antibody, Unconjugated(SL11745R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining