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Rabbit Anti-ER81/AF488 Conjugated antibody

SL11745R-AF488

Product Name	Anti-ER81/AF488
Chinese Name	AF488 标记的转录因子 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.
Research Area	Cell biology Neurobiology Stem cells Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	55kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ER81
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** 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.

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

Omim: 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.