SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-ER81/AF647 Conjugated antibody

Catalog Number: SL11745R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ER81/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human ER81
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Background:	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.

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

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	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.