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ETV1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1230a

Product Information

Application	WB, E
Primary Accession	P50549
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1C8B6
Isotype	IgG1
Calculated MW	55131
Description	ETV1: ets variant gene 1. 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. ER81 (also designated ETV1) binds the motif 5'-CGGAA/T-3'. 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 displays a unique expression patterns which suggests that this transcriptional factor might play an important role in organogenesis. ERK-1 activates ER81 transcriptional activity while MAPKAP kinase 2 inhibits ER81.
Immunogen	Purified recombinant fragment of ETV1 (aa1-191) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2115
Other Names	ETS translocation variant 1, Ets-related protein 81, ETV1, ER81
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ETV1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ETV1 (HGNC:3490)
Function	Transcriptional activator that binds to DNA sequences containing the consensus pentanucleotide 5'-CGGA[AT]-3' (PubMed:7651741). Required for olfactory dopaminergic neuron differentiation; may directly activate expression of tyrosine hydroxylase (TH) (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00237}.
Tissue Location	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.

References

1. Neoplasia. 2006 Oct;8(10):826-32. 2. Cancer Genet Cytogenet. 2008 May;183(1):21-7.

Images

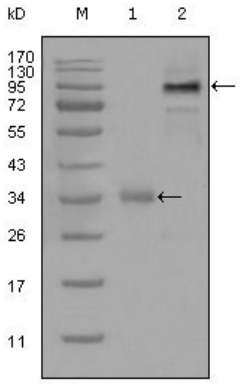


Figure 1: Western blot analysis using ETV1 mouse mAb against truncated Trx-ETV1 recombinant protein (1) and full-length ETV1 (aa1-477)-hIgGFc transfected CHO-K1 cell lysate(2).

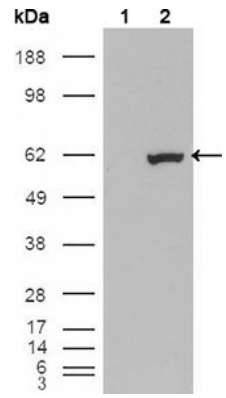
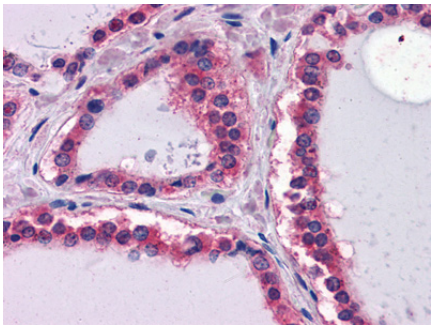


Figure 2: Western blot analysis using ETV1 mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY ETV1 cDNA (2).

Figure 2: Immunohistochemical analysis of paraffin-embedded human Thyroid tissues using LAMB1 mouse mAb



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