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ETV4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1193a

Product Information

Application	WB, E
Primary Accession	P43268
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1A2G3
Isotype	IgG1
Calculated MW	53938
Description	ETV4: ets variant gene 4 (E1A enhancer binding protein, E1AF), also known as PEA3. Several members of the Ets gene family are known to encode sequencespecific DNA binding proteins. These include mouse PU.1, mouse and human Ets-1, Drosophila E74, chicken and human Ets-2 and rat GABP-α. Each of these proteins recognizes similar motifs in DNA that share a centrally located 5'-GGAA-3' element. For instance, PEA3 binds the motif 5'-AGGAAG-3' (the PEA-3 motif), but does not bind to the sequence 5'-AGGAAC-3', recognized by PU.1, although PU.1 binds equally well to both sequences. It appears that all of the Ets proteins recognize the same central core sequence but that each protein interacts with unique sequences that flank this core. PEA3 is expressed at readily detectable levels in cells of epithelial and fibroblastic origin but is not expressed in hematopoietic cells. This is in contrast to other members of the Ets gene family, such as Ets-1, Ets-2 and Fli-1, each of which is expressed primarily in cells of hematopoietic origin.
Immunogen	Purified recombinant fragment of human ETV4 (aa50-109) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2118
Other Names	ETS translocation variant 4, Adenovirus E1A enhancer-binding protein, E1A-F, Polyomavirus enhancer activator 3 homolog, Protein PEA3, ETV4, E1AF, PEA3
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	ETV4 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name	ETV4
Synonyms	E1AF, PEA3
Function	Transcriptional activator (PubMed: 19307308, PubMed:31552090). Regulates the positioning of motor neurons within the lateral medial column of the spinal cord and controls the terminal arborization of specific motor neuron axons within their target muscles (By similarity). Required for the expression of CDH8 and SEMA3E in ETV4- expressing motor neurons and for the exclusion of CDH7 expression from these neurons (By similarity). May play a role in keratinocyte differentiation (PubMed:31552090).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00237}.
Tissue Location	Expressed in keratinocytes.

References

1. J Biol Chem. 2005 Apr 1;280(13):12503-16. 2. Mol Carcinog. 2006 Sep;45(9):667-75. 3. Oncol Rep. 2006 Jul;16(1):153-8.

Images

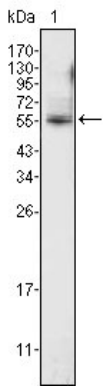


Figure 1: Western blot analysis using ETV4 mouse mAb against K562 cell lysate (1).

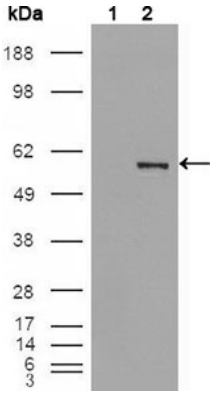


Figure 2: Western blot analysis using ETV4 mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY ETV4 cDNA (2).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.