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ETV4 Antibody

Catalog # ASC12031

Product Information

Application	WB, E
Primary Accession	P43268
Other Accession	24307883, NP_001977, 2118
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	53938
Application Notes	ETV4 antibody can be used for Western blot at 1 - 2 g/mL.

Additional Information

Gene ID	2118
Other Names	ETV4 Antibody: ETS variant 4, E1AF, PEA3, E1A-F, PEAS3
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.

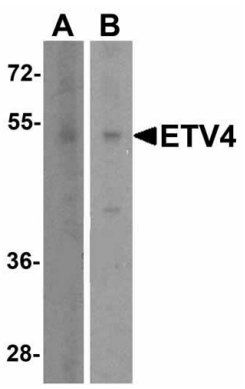
Background

ETV4 Antibody: ETV4, along with the related proteins ETV1 and ETV5, form the PEA3 subfamily of the E26 transformation-specific (ETS) transcription factor family (1). ETV4 is thought to play roles in embryonic kidney development and fertility (2,3), and is also thought to be an oncoprotein in multiple cancers (4).

References

Xin JH, Cowie A, LAchance P, et al. Molecular cloning and characterization of PEA3, a new member of the Ets oncogene family that is differentially expressed in mouse embryonic cells. Genes Dev. 1992; 6:481-96.;Lu BC, Cebrian C, Chi X, et al. Etv4 and Etv5 are required downstream of GDNF and Ret for kidney branching morphogenesis. Nat. Genet. 2009; 41:1295-302.;Laing MA, Coonrod S, Hinton BT, et al. Male sexual dysfunction in mice bearing targeted mutant alleles of the PEA3 ets gene. Mol. Cell. Biol. 2000; 20:9337-45.;Oh S, Shin S, and Janknecht R. ETV1, 4 and 5: An oncogenic subfamily of ETS transcription factors. Biochim. Biophys. Acta 2012: 1826:1-12.

Images



Western blot analysis of ETV4 in (A) human brain tissue lysate and (B) A431 cell lysate with ETV4 antibody at 1 µg/ml.

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