ETV1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	ETV1, Blocking Peptide
Full Product Name	ETV1 Immunizing Peptide
Product Gene Name	ETV1 blocking peptide
Product Synonym Names	ETV1; ets variant gene 1; HGNC: 3490; DKFZp781L0674; ER81; MGC104699; MGC120533; MGC120534; ets variant 1
Sequence	PLKIKKEPHS PCSE
Species Reactivity	Human, Mouse, Rat, Dog
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	ETV1 peptide (MBS425606) is used for blocking the activity of ETV1 antibody (MBS421744)
Molecular Weight	50,217 Da
OMIM	600541
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for ETV1 blocking peptide	MBS425606 is a blocking peptide targeting ETV1. Also known as ETV1 Immunizing Peptide. Reactive in Human, Mouse, Rat, Dog.
Other Notes	Small volumes of ETV1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ETV1. It may not necessarily be applicable to this product.

NCBI GI #	31742534
NCBI GeneID	2115
NCBI Accession #	NP_004947.2
NCBI Related Accession #	NP_001156619.1; NP_001156620.1; NP_001156621.1; NP_001156622.1; NP_001156623.1; NP_001156624.1
UniProt Secondary Accession #	O75849; Q4KMQ6; Q59GA7; A4D118; B2R768; B7Z2I4; B7Z618; B7Z9P2; C9JT37; E9PHB1; F5GXR2
UniProt Related Accession #	P50549
GenBank Nucleotide #	NM_004956.4
NCBI Official Full Name	ETS translocation variant 1 isoform a
NCBI Official Synonym Full Names	ETS variant 1
NCBI Official Symbol	ETV1
NCBI Official Synonym Symbols	ER81
UniProt Protein Name	ETS translocation variant 1
UniProt Synonym Protein Names	Ets-related protein 81

Protein Family	ETS translocation
UniProt Gene Name	ETV1
UniProt Synonym Gene Names	ER81
UniProt Entry Name	ETV1_HUMAN
NCBI Protein Information	ETS translocation variant 1
NCBI Summary for ETV1	This gene encodes a member of the ETS (E twenty-six) family of transcription factors. The ETS proteins regulate many target genes that modulate biological processes like cell growth, angiogenesis, migration, proliferation and differentiation. All ETS proteins contain an ETS DNA-binding domain that binds to DNA sequences containing the consensus 5'-CGGA[AT]-3'. The protein encoded by this gene contains a conserved short acidic transactivation domain (TAD) in the N-terminal region, in addition to the ETS DNA-binding domain in the C-terminal region. This gene is involved in chromosomal translocations, which result in multiple fusion proteins including EWS-ETV1 in Erwing sarcoma and at least 10 ETV1 partners (see PMID: 19657377, Table 1) in prostate cancer. In addition to chromosomal rearrangement, this gene is overexpressed in prostate cancer, melanoma and gastrointestinal stromal tumor. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
UniProt Comments for ETV1	ETV1: Transcriptional activator that binds to DNA sequences containing the consensus pentanucleotide 5'-CGGA[AT]-3'. Defects in ETV1 are a cause of Ewing sarcoma (ES). 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. A chromosomal aberration involving ETV1 is found in patients with Erwing sarcoma. Translocation t(7;22)(p22;q12) with EWSR1. Belongs to the ETS family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 7p21.3 Cellular Component: nucleus Molecular Function: protein binding; transcription factor activity Biological Process: axon guidance; mechanosensory behavior; muscle development; peripheral nervous system neuron development; positive regulation of transcription from RNA polymerase II promoter; transcription from RNA polymerase II promoter
Research Articles on ETV1	**1.** conclude that ETV1 is specifically expressed in the majority of gastrointestinal stromal tumors, even in some KIT-negative cases
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