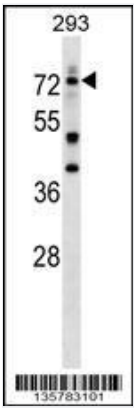
DEAF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DEAF1, Polyclonal Antibody
Full Product Name	DEAF1, CT (DEAF1, SPN, ZMYND5, Deformed epidermal autoregulatory factor 1 homolog, Nuclear DEAF-1-related transcriptional regulator, Suppressin, Zinc finger MYND domain-containing protein 5) (Azide free) (HRP)
Product Gene Name	anti-DEAF1 antibody
Product Synonym Names	DEAF1; SPN; ZMYND5; Deformed epidermal autoregulatory factor 1 homolog; Nuclear DEAF-1-related transcriptional regulator; Suppressin; Zinc finger MYND domain-containing protein 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	51,277 Da
OMIM	gene 615828
3D Structure	ModBase 3D Structure for O75398
Immunogen	DEAF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 473-502 amino acids from the C-terminal region of human DEAF1.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-DEAF1 antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-DEAF1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-DEAF1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DEAF1 antibody	Transcription factor that binds to sequence with multiple copies of 5'-TTC[CG]G-3' present in its own promoter and that of the HNRPA2B1 gene. Down-regulates transcription of these genes. Binds to the retinoic acid response element (RARE) 5'-AGGGTTCACCGAAAGTTCA-3'. Activates the proenkephalin gene independently of promoter binding, probably through protein-protein interaction. When secreted, behaves as an inhibitor of cell proliferation, by arresting cells in the G0 or G1 phase. Required for neural tube closure and skeletal patterning. Regulates epithelial cell proliferation and side-branching in the mammary gland. Controls the expression of peripheral tissue antigens in pancreatic lymph nodes. Isoform 1 displays greater transcriptional activity than isoform 4. Isoform 4 may inhibit transcriptional activity of isoform 1 by interacting with isoform 1 and retaining it in the cytoplasm.

Product References and Citations for anti-DEAF1 antibody	Pilot-Storck, F., et al. Mol. Cell Proteomics 9(7):1578-1593(2010). Gu, B., et al. Biochem. Biophys. Res. Commun. 394(2):418-423(2010). Yip, L., et al. Nat. Immunol. 10(9):1026-1033(2009). Egli, R.J., et al. Arthritis Rheum. 60(7):2055-2064(2009). Barker, H.E., et al. BMC Dev. Biol. 8, 94 (2008).
Other Notes	Small volumes of anti-DEAF1 antibody 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.
Searchable Terms for DEAF1 purchase	MBS6291567 is an antibody targeting DEAF1. Also known as DEAF1, CT (DEAF1, SPN, ZMYND5, Deformed epidermal autoregulatory factor 1 homolog, Nuclear DEAF-1-related transcriptional regulator, Suppressin, Zinc finger MYND domain-containing protein 5) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DEAF1 antibody
DEAF1 Antibody (C-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the DEAF1 antibody detected the DEAF1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEAF1. It may not necessarily be applicable to this product.

NCBI GI #	38016945
NCBI GeneID	10522
NCBI Accession #	NP_066288.2
UniProt Primary Accession #	O75398
UniProt Secondary Accession #	O15152; O75399; O75510; O75511; O75512; O75513; Q9UET1; A8K1F8; A8K5R8; C7T5V5
UniProt Related Accession #	O75398
GenBank Nucleotide #	NM_021008.3
NCBI Official Full Name	deformed epidermal autoregulatory factor 1 homolog isoform a
NCBI Official Synonym Full Names	DEAF1 transcription factor
NCBI Official Symbol	DEAF1
NCBI Official Synonym Symbols	SPN; NUDR; MRD24; ZMYND5
UniProt Protein Name	Deformed epidermal autoregulatory factor 1 homolog
UniProt Synonym Protein Names	Nuclear DEAF-1-related transcriptional regulator; NUDR; Suppressin; Zinc finger MYND domain-containing protein 5
Protein Family	Deformed epidermal autoregulatory factor
UniProt Gene Name	DEAF1
UniProt Synonym Gene Names	SPN; ZMYND5; NUDR
UniProt Entry Name	DEAF1_HUMAN

NCBI Protein Information	deformed epidermal autoregulatory factor 1 homolog; suppressin; zinc finger MYND domain-containing protein 5; nuclear DEAF-1-related transcriptional regulator
NCBI Summary for DEAF1	This gene encodes a zinc finger domain-containing protein that functions as a regulator of transcription. The encoded proteins binds to its own promoter as well as to that of several target genes. Activity of this protein is important in the regulation of embryonic development. Mutations in this gene have been found in individuals with autosomal dominant mental retardation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]
UniProt Comments for DEAF1	DEAF1: a transcription factor that binds to its own promoter and that of the HNRPA2B1 gene. Down-regulates transcription of these genes. Binds to the retinoic acid response element (RARE). Activates the proenkephalin gene independently of promoter binding, probably through protein-protein interaction. When secreted, behaves as an inhibitor of cell proliferation, by arresting cells in the G0 or G1 phase. Protein type: Transcription, coactivator/corepressor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; nucleolus; extracellular region; nucleus Molecular Function: protein binding; DNA binding; metal ion binding Biological Process: regulation of transcription from RNA polymerase II promoter; transcription from RNA polymerase II promoter; regulation of mammary gland epithelial cell proliferation; anatomical structure morphogenesis; behavioral fear response; embryonic skeletal development; positive regulation of transcription, DNA-dependent; neural tube closure; visual learning; negative regulation of transcription, DNA-dependent; germ cell development Disease: Mental Retardation, Autosomal Dominant 24
Research Articles on DEAF1	**1.** these results demonstrate that mutations in DEAF1 cause ID and behavioral problems, most likely as a result of impaired transcriptional regulation by DEAF1.
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