ZMIZ1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ZMIZ1, Polyclonal Antibody
Full Product Name	ZMIZ1 Antibody
Product Gene Name	anti-ZMIZ1 antibody
Product Synonym Names	hZIMP10; KIAA1224; MIZ; PIAS like protein hZimp10; PIAS like protein on chromosome 10; PIAS like protein Zimp10; PIAS-like protein Zimp10; RAI 17; Retinoic acid induced 17; Retinoic acid induced protein 17; Retinoic acid-induced protein 17; TRAFIP10; Zimp10; Zinc finger containing Miz1 PIAS like protein on chromosome 10; Zinc finger MIZ domain-containing protein 1; Zinc finger MIZ-type containing 1; Zmiz1; ZMIZ1_HUMAN
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	ZMIZ1 Antibody detects endogenous levels of ZMIZ1.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	ZMIZ1 peptide (MBS9632139) is used for blocking the activity of ZMIZ1 antibody (MBS9629756)
Molecular Weight	107,270 Da
OMIM	607159
3D Structure	ModBase 3D Structure for Q9ULJ6
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human ZMIZ1.
Conjugation	Unconjugated
Similarity	The SP-RING-type domain mediates interaction with SMAD3 and SMAD4. The C-terminal proline-rich domain possesses a significant intrinsic transcriptional activity. This activity is inhibited by the N-terminus in the full-length protein.
Subunit Structure	Interacts with AR, but not with ESR1, NR3C1, PGR, THRB nor VDR. Interacts with NOTCH1 and RBPJ. Interacts with SMARCA4 (By similarity). Interacts (via SP-RING-type domain) with SMAD3 and SMAD4 (via MH2 domain).
Tissue Specificity	Expressed most abundantly in ovary and, at lower levels, in prostate, spleen and testis. Weak expression, if any, in thymus, small intestine, colon and peripheral blood leukocytes.
Function	Acts as transcriptional coactivator. Increases ligand-dependent transcriptional activity of AR and promotes AR sumoylation. The stimulation of AR activity is dependent upon sumoylation. Also functions as a transcriptional coactivator in the TGF-beta signaling pathway by increasing the activity of the SMAD3/SMAD4 transcriptional complex. Involved in transcriptional activation of a subset of NOTCH1 target genes including MYC. Involved in thymocyte and T cell development (By similarity).

Note	Enriched at replication foci throughout S phase.
Product Categories/Family for anti-ZMIZ1 antibody	Nucleus; Nucleoplasm; Cytoplasm; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ZMIZ1 antibody	ELISA (EIA)(peptide)
Application Notes for anti-ZMIZ1 antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-ZMIZ1 antibody	MBS9629756 is an antibody targeting ZMIZ1. Also known as ZMIZ1 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ZMIZ1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ZMIZ1. It may not necessarily be applicable to this product.

NCBI GI #	31543543
NCBI GeneID	57178
NCBI Accession #	NP_65071
UniProt Primary Accession #	Q9ULJ6
UniProt Secondary Accession #	Q5JSH9; Q7Z7E6
UniProt Related Accession #	Q9ULJ6
GenBank Nucleotide #	NM_020338.3
NCBI Official Full Name	zinc finger MIZ domain-containing protein 1
NCBI Official Synonym Full Names	zinc finger, MIZ-type containing 1
NCBI Official Symbol	ZMIZ1
NCBI Official Synonym Symbols	MIZ; RAI17; ZIMP10; hZIMP10; TRAFIP10
UniProt Protein Name	Zinc finger MIZ domain-containing protein 1
UniProt Synonym Protein Names	PIAS-like protein Zimp10; Retinoic acid-induced protein 17
Protein Family	Zinc finger MIZ domain-containing protein
UniProt Gene Name	ZMIZ1
UniProt Synonym Gene Names	KIAA1224; RAI17; ZIMP10
UniProt Entry Name	ZMIZ1_HUMAN
NCBI Protein Information	zinc finger MIZ domain-containing protein 1; RP11-519K18.1; FLJ00092 protein; retinoic acid induced 17; zinc finger-containing, Miz1, PIAS-like protein on chromosome 10
NCBI Summary for ZMIZ1	This gene encodes a member of the PIAS (protein inhibitor of activated STAT) family of proteins. The encoded protein regulates the activity of various transcription factors, including the androgen receptor, Smad3/4, and p53. The encoded protein may also play a role in sumoylation. A translocation between this locus on chromosome 10 and the protein tyrosine kinase ABL1 locus on chromosome 9 has been associated with acute lymphoblastic leukemia. [provided by RefSeq, Mar 2010]

UniProt Comments for ZMIZ1	RAI17: Increases ligand-dependent transcriptional activity of AR and promotes AR sumoylation. The stimulation of AR activity is dependent upon sumoylation. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 10q22.3 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; cytoplasm; nuclear speck Molecular Function: zinc ion binding Biological Process: heart morphogenesis; developmental growth; positive regulation of fibroblast proliferation; transcription, DNA-dependent; in utero embryonic development; vitellogenesis; artery morphogenesis; cell aging; positive regulation of transcription from RNA polymerase II promoter; vasculogenesis
Research Articles on ZMIZ1	**1.** ZMIZ1 is overexpressed in a significant percentage of human breast, ovarian, and colon cancers in addition to human squamous cell carcinomas, suggesting that ZMIZ1 may play a broader role in epithelial cancers.
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