

Recombinant Human EWSR1

Cat. No. EWSR1-28336TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human EWSR1 with N terminal proprietary tag, predicted mwt: 36.19kDa.
Species	Human
Source	Wheat Germ
ProteinLength	96 amino acids
Description	This gene encodes a multifunctional protein that is involved in various cellular processes, including gene expression, cell signaling, and RNA processing and transport. The protein includes an N-terminal transcriptional activation domain and a C-terminal RNA-binding domain. Chromosomal translocations between this gene and various genes encoding transcription factors result in the production of chimeric proteins that are involved in tumorigenesis. These chimeric proteins usually consist of the N-terminal transcriptional activation domain of this protein fused to the C-terminal DNA-binding domain of the transcription factor protein. Mutations in this gene, specifically a t(11;22)(q24;q12) translocation, are known to cause Ewing sarcoma as well as neuroectodermal and various other tumors. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1 and 14.
Molecular Weight	36.190kDa inclusive of tags
Tissue specificity	Ubiquitous.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SDNSAIYVQGLNDSVTLDDLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDAT VSYEDPPTAKAAVEWFDGKDFQGSKLKVSLARKKPPMNS
Sequence Similarities	Belongs to the RRM TET family.Contains 1 IQ domain.Contains 1 RanBP2-type zinc finger.Contains 1 RRM (RNA recognition motif) domain.

GENE INFORMATION

Gene Name	EWSR1 Ewing sarcoma breakpoint region 1 [Homo sapiens]
Official Symbol	EWSR1
Synonyms	EWSR1; Ewing sarcoma breakpoint region 1; RNA-binding protein EWS; EWS;
Gene ID	2130
mRNA Refseq	NM_001163285
Protein Refseq	NP_001156757
MIM	133450

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Uniprot ID	Q01844
Chromosome Location	22q12.2
Pathway	BARD1 signaling events, organism-specific biosystem; Transcriptional misregulation in cancers, organism-specific biosystem; Transcriptional misregulation in cancers, conserved biosystem;
Function	RNA binding; calmodulin binding; metal ion binding; nucleic acid binding; nucleotide binding;

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