

Anti-EWSR1 Picoband Antibody

Catalog # ABO12271

Product Information

Application	WB, IHC-P
Primary Accession	Q01844
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for RNA-binding protein EWS(EWSR1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2130
Other Names	RNA-binding protein EWS, EWS oncogene, Ewing sarcoma breakpoint region 1 protein, EWSR1, EWS
Calculated MW	68478
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Nucleus . Cytoplasm . Cell membrane . Relocates from cytoplasm to ribosomes upon PTK2B/FAK2 activation.
Tissue Specificity	Ubiquitous.
Source	Eukaryota
Protein Name	RNA-binding protein EWS
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human EWSR1 (369-399aa NDSVTLDDLADFFKQCGVVKMNKRTGQPMIH), different from the related mouse sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the RRM TET family.

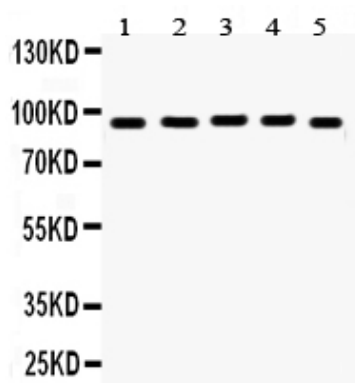
Protein Information

Name	EWSR1
Synonyms	EWS
Function	Binds to ssRNA containing the consensus sequence 5'-AGGUAA-3' (PubMed: 21256132). Might normally function as a transcriptional repressor (PubMed: 10767297). EWS-fusion-proteins (EFPs) may play a role in the tumorigenic process. They may disturb gene expression by mimicking, or interfering with the normal function of CTD-POLII within the transcription initiation complex. They may also contribute to an aberrant activation of the fusion protein target genes.
Cellular Location	Nucleus. Cytoplasm. Cell membrane. Note=Relocates from cytoplasm to ribosomes upon PTK2B/FAK2 activation
Tissue Location	Ubiquitous.

Background

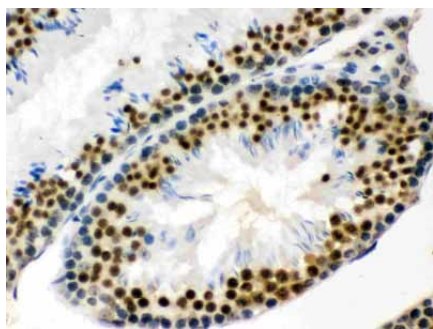
This gene encodes a multifunctional protein that is involved in various cellular processes, including gene expression, cell signaling, and RNA processing and transport. The protein includes an N-terminal transcriptional activation domain and a C-terminal RNA-binding domain. Chromosomal translocations 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.

Images

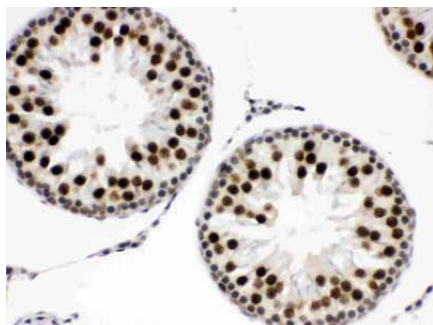


Anti- EWSR1 Picoband antibody, ABO12271, Western blotting
 All lanes: Anti EWSR1 (ABO12271) at 0.5ug/ml
 Lane 1: Rat Brain Tissue Lysate at 50ug
 Lane 2: Rat Testis Tissue Lysate at 50ug
 Lane 3: HELA Whole Cell Lysate at 40ug
 Lane 4: SKOV Whole Cell Lysate at 40ug
 Lane 5: SW620 Whole Cell Lysate at 40ug
 Predicted bind size: 68KD
 Observed bind size: 95KD

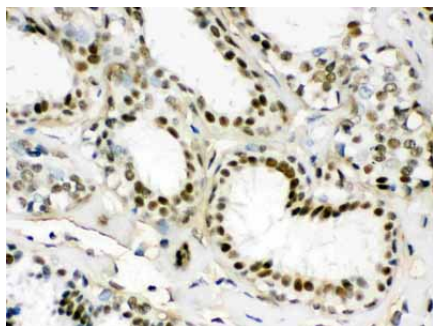
Anti- EWSR1 Picoband antibody, ABO12271, IHC(P)
 IHC(P): Mouse Testis Tissue



Anti- EWSR1 Picoband antibody, ABO12271, IHC(P)IHC(P):
Rat Testis Tissue



Anti- EWSR1 Picoband antibody, ABO12271, IHC(P)IHC(P):
Human Mammary Cancer Tissue



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