

**Anti-EWSR1 Picoband Antibody**  
Catalog # ABO12271**Specification****Anti-EWSR1 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q01844</a>
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.<br>

**Reconstitution**

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

**Anti-EWSR1 Picoband Antibody - Additional Information**

**Gene ID** 2130

**Other Names**

RNA-binding protein EWS, EWS oncogene, Ewing sarcoma breakpoint region 1 protein, EWSR1, EWS

**Calculated MW**

68478 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat <br>

**Subcellular Localization**

Nucleus . Cytoplasm . Cell membrane . Relocates from cytoplasm to ribosomes upon PTK2B/FAK2 activation.

**Tissue Specificity**

Ubiquitous.

**Protein Name**

RNA-binding protein EWS

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human EWSR1 (369-399aa NDSVTLLDDLADFFKQCGVVKMNKRTGQPMIH), 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.

### **Anti-EWSR1 Picoband Antibody - Protein Information**

**Name** EWSR1

**Synonyms** EWS

#### **Function**

Might normally function as a transcriptional repressor. 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**

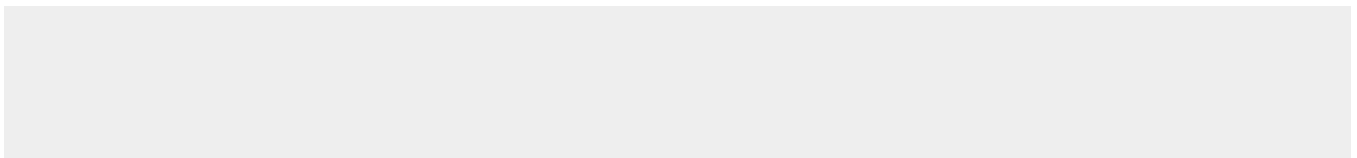
Ubiquitous.

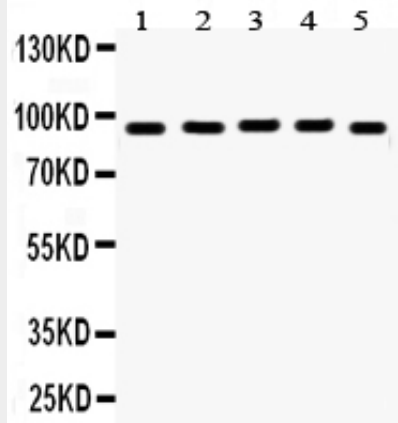
### **Anti-EWSR1 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

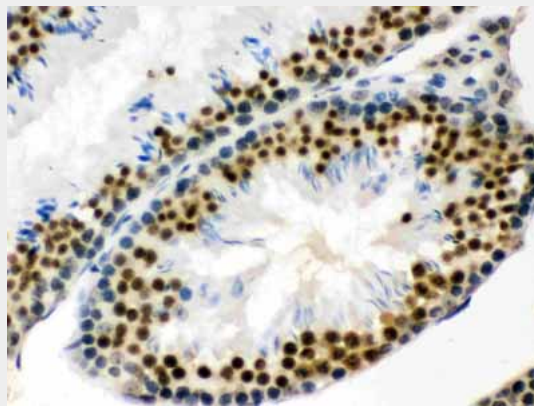
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-EWSR1 Picoband Antibody - Images**

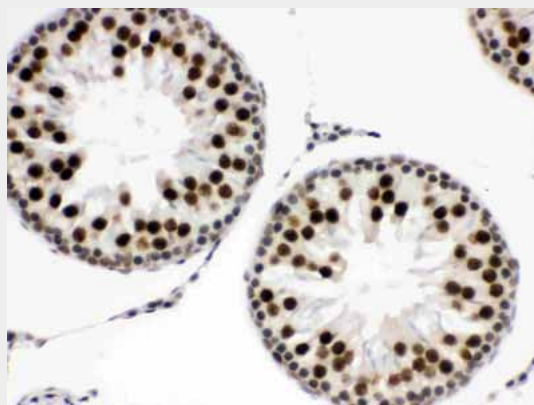




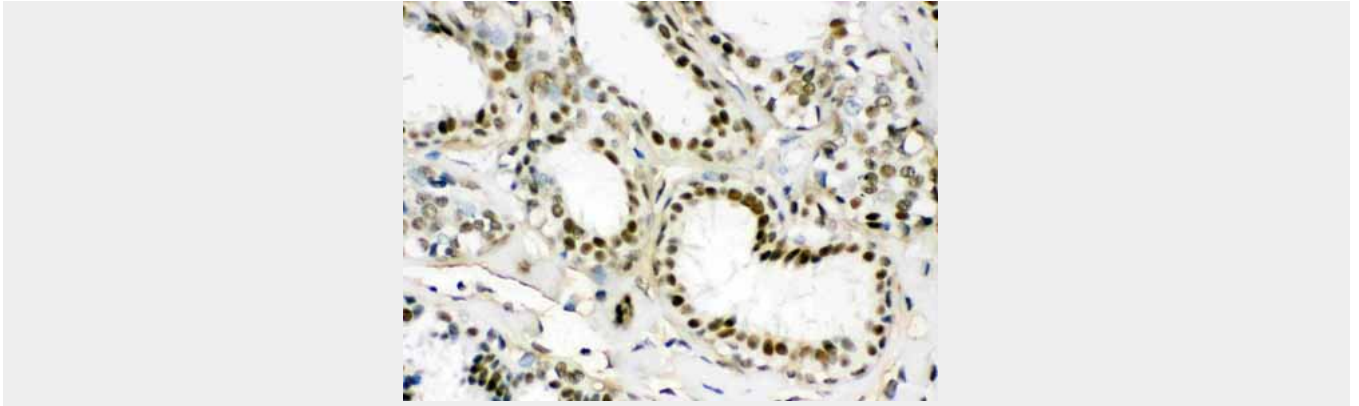
Anti- EWSR1 Picoband antibody, ABO12271, Western blottingAll lanes: Anti EWSR1 (ABO12271) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Testis Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugLane 5: SW620 Whole Cell Lysate at 40ugPredicted bind size: 68KDObserved 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

#### **Anti-EWSR1 Picoband Antibody - 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.