

**Goat Anti-EWS / EWSR1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1385a****Specification**

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**Goat Anti-EWS / EWSR1 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">Q01844</a>
Other Accession	<a href="#">NP_005234</a> , <a href="#">2130</a> , <a href="#">14030 (mouse)</a> , <a href="#">289752 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	68478

**Goat Anti-EWS / EWSR1 Antibody - Additional Information****Gene ID** 2130**Other Names**

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

**Dilution**WB~~1:1000  
IHC~~1:100~500  
E~~N/A**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-EWS / EWSR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-EWS / EWSR1 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.

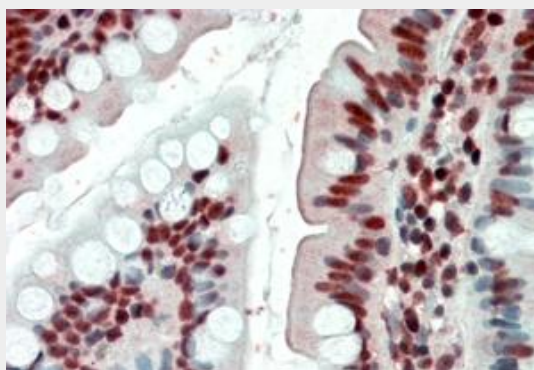
**Goat Anti-EWS / EWSR1 Antibody - Protocols**

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](#)

**Goat Anti-EWS / EWSR1 Antibody - Images**

AF1385a (0.1 µg/ml) staining of nuclear HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1385a (3.8 µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

### **Goat Anti-EWS / EWSR1 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.

### **Goat Anti-EWS / EWSR1 Antibody - References**

Detection of SYT and EWS gene rearrangements by dual-color break-apart CISH in liquid-based cytology samples of synovial sarcoma and Ewing sarcoma/primitive neuroectodermal tumor.

Kumagai A, et al. Am J Clin Pathol, 2010 Aug. PMID 20660338.

Hypoxia modulates EWS-FLI1 transcriptional signature and enhances the malignant properties of Ewing's sarcoma cells in vitro. Aryee DN, et al. Cancer Res, 2010 May 15. PMID 20442286.

EWS-FLI-1 modulates miRNA145 and SOX2 expression to initiate mesenchymal stem cell reprogramming toward Ewing sarcoma cancer stem cells. Riggi N, et al. Genes Dev, 2010 May. PMID 20382729.

Impact of EWS-ETS fusion type on disease progression in Ewing's sarcoma/peripheral primitive neuroectodermal tumor: prospective results from the cooperative Euro-E.W.I.N.G. 99 trial. Le Deley MC, et al. J Clin Oncol, 2010 Apr 20. PMID 20308673.

Current treatment protocols have eliminated the prognostic advantage of type 1 fusions in Ewing sarcoma: a report from the Children's Oncology Group. van Doorninck JA, et al. J Clin Oncol, 2010 Apr 20. PMID 20308669.