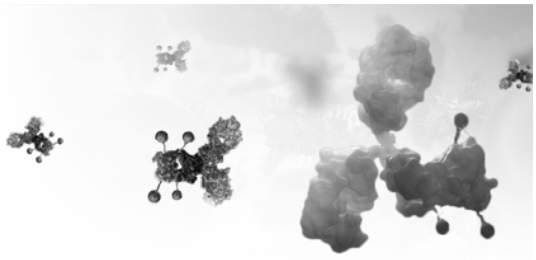

Rat Anti-EWSR1 monoclonal antibody, clone 32C2 (CABT-RM137)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects human RNA-binding protein EWS. It targets an epitope with in 20 amino acids from the C-terminal region.
Target	EWSR1
Immunogen	Ovalbumin-conjugated linear peptide corresponding to 20 amino acids from the RGG3 domain of human RNA-binding protein EWS.
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Human
Clone	32C2
Purification	Protein G purified
Conjugate	unconjugated
Applications	ELISA, WB
Molecular Weight	~85 kDa observed; 68.48 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µl
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl

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Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	RNA-binding protein EWS is encoded by the EWSR1 gene in human. EWS is member of the TET family of DNA and RNA-binding proteins, which also includes translocated in liposarcoma/fused in sarcoma protein (FUS/TLS) and TATA-binding protein-associated factor 15. It is a multifaceted RNA binding protein with established roles in transcription, pre-mRNA processing, and DNA damage response. It contains a transcriptional-activation domain (EAD), 3 glycine-arginine rich regions, an RNA-binding domain, and a zinc finger domain (aa 518-549). EWS is highly methylated on arginine residues and methylation is mediated by PRMT1 and to some extent by PRMT8. Various environmental signals are known to induce post-translational modifications in its RNA binding domain and glycine-arginine rich domains, thus modulating EWS activity. EWS can relocate from cytoplasm to ribosomes upon PTK2B/FAK2 activation. Mutations in EWS gene are known to cause Ewing sarcoma, a highly malignant, metastatic, primitive small round cell tumor of bone and soft tissue.
Keywords	EWSR1; Ewing sarcoma breakpoint region 1; RNA-binding protein EWS; EWS; Ewings sarcoma EWS-Fli1 (type 1) oncogene; bK984G1.4

GENE INFORMATION

Entrez Gene ID	2130
UniProt ID	Q01844

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