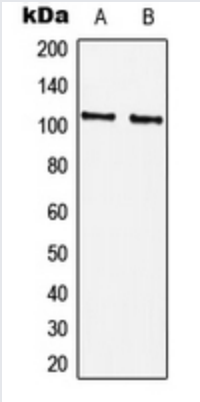
CTIP (Ps327) (RBBP8) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTIP (pS327) (RBBP8), Polyclonal Antibody
Full Product Name	Anti-CTIP (pS327) Phospho Antibody
Product Gene Name	anti-RBBP8 antibody
Product Synonym Names	CTIP; DNA endonuclease RBBP8; CtBP-interacting protein; CtIP; Retinoblastoma-binding protein 8; RBBP-8; Retinoblastoma-interacting protein and myosin-like; RIM; Sporulation in the absence of SPO11 protein 2 homolog; SAE2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Monkey
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of CTIP (pS327) protein.
Preparation and Storage	Ships on blue ice. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	CTIP (pS327) peptide (MBS823649) is used for blocking the activity of CTIP (pS327) antibody (MBS821182)
OMIM	gene 606744
3D Structure	ModBase 3D Structure for Q99708
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CTIP (pS327). The exact sequence is proprietary.
Applications Tested/Suitable for anti-RBBP8 antibody	Western Blot (WB)
Application Notes for anti-RBBP8 antibody	WB (1/500 - 1/1000)
Related Product Information for anti-RBBP8 antibody	MBS821182 is an antibody targeting RBBP8. Also known as Anti-CTIP (pS327) Phospho Antibody. Reactive in Human, Mouse, Monkey. Host: Rabbit. Rabbit polyclonal antibody to CTIP (pS327)
Other Notes	Small volumes of anti-RBBP8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-RBBP8 antibody
Western blot analysis of CTIP (pS327) expression in HEK293T (A), Raw264.7 (B) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RBBP8. It may not necessarily be applicable to this product.

NCBI GI #	4506441
NCBI GeneID	5932
NCBI Accession #	NP_002885.1
UniProt Primary Accession #	Q99708
UniProt Secondary Accession #	O75371; Q8NHQ3; A6NKN2; A8K8W6; E7ETY1
UniProt Related Accession #	Q99708
GenBank Nucleotide #	NM_002894.2
NCBI Official Full Name	DNA endonuclease RBBP8 isoform a
NCBI Official Synonym Full Names	retinoblastoma binding protein 8
NCBI Official Symbol	RBBP8
NCBI Official Synonym Symbols	RIM; COM1; CTIP; JWDS; SAE2; SCKL2
UniProt Protein Name	DNA endonuclease RBBP8
UniProt Synonym Protein Names	CtBP-interacting protein; CtIP; Retinoblastoma-binding protein 8; RBBP-8; Retinoblastoma-interacting protein and myosin-like; RIM; Sporulation in the absence of SPO11 protein 2 homolog; SAE2
Protein Family	DNA endonuclease
UniProt Gene Name	RBBP8
UniProt Synonym Gene Names	CTIP; CtIP; RBBP-8; RIM; SAE2
UniProt Entry Name	COM1_HUMAN
NCBI Protein Information	DNA endonuclease RBBP8; RBBP-8; CTBP-interacting protein; sporulation in the absence of SPO11 protein 2 homolog
NCBI Summary for RBBP8	The protein encoded by this gene is a ubiquitously expressed nuclear protein. It is found among several proteins that bind directly to retinoblastoma protein, which regulates cell proliferation. This protein complexes with transcriptional co-repressor CTBP. It is also associated with BRCA1 and is thought to modulate the functions of BRCA1 in transcriptional regulation, DNA repair, and/or cell cycle checkpoint control. It is suggested that this gene may itself be a tumor suppressor acting in the same pathway as BRCA1. Three transcript variants encoding two different isoforms have been found for this gene. More transcript variants exist, but their full-length natures have not been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for RBBP8	CtIP: a transcription factor containing C2H2 zinc fingers. May modulate the functions ascribed to BRCA1 in transcriptional regulation, DNA repair, and/or cell cycle checkpoint control. Interacts with CTBP, with the C-terminal (BRCT) domains of BRCA1, and with the retinoblastoma protein. Abundantly expressed in brain and the immune system and associated with immune system malignancies. Ionizing radiation induces its hyperphosphorylation and dissociation from BRCA1 in an ATM-dependent manner. Protein type: EC 3.1.-.-; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: nucleoplasm; transcriptional repressor complex; nucleolus; nucleus Molecular Function: protein binding; single-stranded DNA specific endodeoxyribonuclease activity; damaged DNA binding Biological Process: regulation of transcription from RNA polymerase II promoter; mitosis; meiotic cell cycle; cell division; blastocyst hatching; negative regulation of transcription from RNA polymerase II promoter; G2/M transition DNA damage checkpoint; DNA repair; cell cycle checkpoint; DNA catabolic process, endonucleolytic; double-strand break repair via homologous recombination; G1/S transition of mitotic cell cycle Disease: Jawad Syndrome; Seckel Syndrome 2
Research Articles on RBBP8	**1.** Plk3 binds to CtIP phosphorylated at S327 via its Polo box domains, which is necessary for robust damage-induced CtIP phosphorylation at S327 and subsequent CtIP phosphorylation at T847.
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