CtIP Monoclonal Antibody

Catalog No	YP-mAb-01637
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	RBBP8
Immunogen	The antiserum was produced against synthesized peptide derived from human CTIP. AA range:293-342
Specificity	CtIP Monoclonal Antibody detects endogenous levels of CtIP protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CtBP interacting protein;CTIP;DNA endonuclease RBBP8;RBBP 8;RBBP8;RIM; SAE2;CtBP-interacting protein;Retinoblastoma-binding protein 8;RBBP-8; Retinoblastoma-interacting protein and myosin-like;Sporulation in the absence of SPO11 protein 2 homolog
Observed Band	100kD
Calculated Molecular Weight	100kD
Cell Pathway	Nucleus . Chromosome . Associates with sites of DNA damage in S/G2 phase (PubMed:10764811, PubMed:25349192). Ubiquitinated RBBP8 binds to chromatin following DNA damage (PubMed:16818604). .
Tissue Specificity	Expressed in ER-positive breast cancer lines, but tends to be down-regulated ER-negative cells (at protein level).
Function	function:May modulate the functions ascribed to BRCA1 in transcriptional regulation, DNA repair, and/or cell cycle checkpoint control., PTM:Phosphorylated upon DNA damage, probably by ATM or ATR. Hyperphosphorylation upon ionizing radiation results in dissociation from BRCA1.,PTM:Ubiquitinated; mediated by SIAH1 and leading to its subsequent proteasomal degradation.,subcellular location:Predominantly nuclear., subunit:Interacts with CTBP, with the C-terminal (BRCT) domains of BRCA1,

	and with the retinoblastoma protein.,
Background	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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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