

Rabbit anti-Human REC8 Polyclonal Antibody | anti-REC8 antibody

REC8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324820	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

REC8; Polyclonal Antibody; REC8 Antibody; Cohesin Rec8p; Human homolog of rad21 S. pombe; Meiotic recombination and sister chromatid cohesion phosphoprotein of the rad21p family; Meiotic recombination protein REC8 homolog; Meiotic recombination protein REC8-like 1; rec8; REC8 homolog (yeast); REC8 like 1; REC8_HUMAN; Rec8p; Recombination and sister chromatid cohesion protein homolog; anti-REC8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	REC8 antibody detects endogenous levels of total REC8
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	547
Applicable Applications for anti-REC8 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus. Chromosome. In meiotic chromosomes, localized along axial elements in prophase from the leptotene to diplotene stages. At later prophase stages, diakinesis and metaphase I, localized along interstitial axes of chromosomes including both centromere and arm regions. No longer detected in arm regions in anaphase I but persists on centromere regions until metaphase II.
Tissue Specificity	Expressed in testis and thymus. Expressed in the B-cell lines WI-L2-NS and Namalwa (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Sheep
Similarity	Pig (91%), Bovine (82%), Sheep (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from K562 cells, using REC8 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA324820 staining LOVO by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-REC8 antibody	Function: Required during meiosis for separation of sister chromatids and homologous chromosomes. Proteolytic cleavage of REC8 on chromosome arms by separin during anaphase I allows for homologous chromosome separation in meiosis I and cleavage of REC8 on centromeres during anaphase II allows for sister chromatid separation in meiosis II (By similarity). Subunit Structure: Interacts (phosphorylated and unphosphorylated form) with SMC3. Interacts with SYCP3. Interacts (phosphorylated and unphosphorylated form) with SMC1B. Does not interact with SMC1A. Interacts with RAD51 (By similarity). Post-translational Modifications: Phosphorylated. Similarity: Belongs to the rad21 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115430231
NCBI GeneID	9985
NCBI Accession #	NP_001041670.1
NCBI GenBank Nucleotide #	NM_001048205.1
UniProt Accession #	O95072; Q658V5; Q6IA92; Q8WUV8; Q9BTF2; Q9NVQ9; A8K576; D3DS62
Molecular Weight	Observed: 62 kD Predicted: 63 kDa
NCBI Official Full Name	meiotic recombination protein REC8 homolog
NCBI Official Synonym Full Names	REC8 meiotic recombination protein
NCBI Official Symbol	REC8
NCBI Official Synonym Symbols	Rec8p; REC8L1; HR21spB
NCBI Protein Information	meiotic recombination protein REC8 homolog
UniProt Protein Name	Meiotic recombination protein REC8 homolog
UniProt Gene Name	REC8
UniProt Synonym Gene Names	REC8L1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.