

Rabbit anti-Human, Rat RAD51C Polyclonal Antibody | anti-RAD51C antibody

Anti-RAD51C Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19762	Rabbit	Human, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

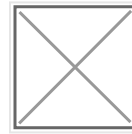
PRODUCT SYNONYMS

RAD51C; Polyclonal Antibody; Anti-RAD51C Antibody Picoband; period circadian clock 3 ; Period circadian protein homolog 3; hPER3; Cell growth-inhibiting gene 13 protein; Circadian clock protein PERIOD 3; PER3; GIG13; anti-RAD51C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RAD51C antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human RAD51C recombinant protein (Position: Q11-K342).
Subcellular Localization	Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.

Protein Function	Originally described as a core component of the circadian clock. The circadian clock, an internal time-keeping system, regulates various physiological processes through the generation of approximately 24 hour circadian rhythms in gene expression, which are translated into rhythms in metabolism and behavior. It is derived from the Latin roots 'circa' (about) and 'diem' (day) and acts as an important regulator of a wide array of physiological functions including metabolism, sleep, body temperature, blood pressure, endocrine, immune, cardiovascular, and renal function. Consists of two major components: the central clock, residing in the suprachiasmatic nucleus (SCN) of the brain, and the peripheral clocks that are present in nearly every tissue and organ system. Both the central and peripheral clocks can be reset by environmental cues, also known as Zeitgebers (German for 'timegivers'). The predominant Zeitgeber for the central clock is light, which is sensed by retina and signals ly to the SCN. The central clock entrains the peripheral clocks through neuronal and hormonal signals, body temperature and feeding-related cues, aligning all clocks with the external light/dark cycle. Circadian rhythms allow an organism to achieve temporal homeostasis with its environment at the molecular level by regulating gene expression to create a peak of protein expression once every 24 hours to control when a particular physiological process is most active with respect to the solar day. Transcription and translation of core clock components (CLOCK, NPAS2, ARNTL/BMAL1, ARNTL2/BMAL2, PER1, PER2, PER3, CRY1 and CRY2) plays a critical role in rhythm generation, whereas delays imposed by post-translational modifications (PTMs) are important for determining the period (tau) of the rhythms (tau refers to the period of a rhythm and is the length, in time, of one complete cycle). A diurnal rhythm is synchronized with the day/night cycle, while the ultradian and infradian rhythms have a period shorter and longer than 24 hours, respectively. Disruptions in the circadian rhythms contribute to the pathology of cardiovascular diseases, cancer, metabolic syndromes and aging. A transcription/translation feedback loop (TTFL) forms the core of the molecular circadian clock mechanism. Transcription factors, CLOCK or NPAS2 and ARNTL/BMAL1 or ARNTL2/BMAL2, form the positive limb of the feedback loop, act in the form of a heterodimer and activate the transcription of core clock genes and clock-controlled genes (involved in key metabolic processes), harboring E-box elements (5'-CACGTG-3') within their promoters. The core clock genes: PER1/2/3 and CRY1/2 which are transcriptional repressors form the negative limb of the feedback loop and interact with the CLOCK
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IHC (Immunohistchemistry)

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Related Product Information for anti-RAD51C antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RAD51C antibody	Primary Antibodies ; Cardiogenesis ; Cardiovascular ; Epigenetics and Nuclear Signaling ; Transcription ; Transcription Factors ; Transcription Factors/Regulators
References	1. "Entrez Gene: RAD51C RAD51 homolog C (S. cerevisiae)".2. Dosanjh MK, Collins DW, Fan W, Lennon GG, Albala JS, Shen Z, Schild D (March 1998). "Isolation and characterization of RAD51C, a new human member of the RAD51 family of related genes". Nucleic Acids Res. 26 (5): 1179-84.

NCBI GI #	4506391
NCBI GeneID	5889
NCBI Accession #	NP_002867.1
NCBI GenBank Nucleotide #	NM_002876.2
UniProt Accession #	O43502; O43503; Q3B783

Molecular Weight	42,190 Da
NCBI Official Full Name	DNA repair protein RAD51 homolog 3 isoform 2
NCBI Official Synonym Full Names	RAD51 homolog C (S. cerevisiae)
NCBI Official Symbol	RAD51C
NCBI Official Synonym Symbols	FANCO; BROVCA3; RAD51L2
NCBI Protein Information	DNA repair protein RAD51 homolog 3; R51H3; RAD51-like protein 2; yeast RAD51 homolog 3; RAD51 homolog C, isoform 1
UniProt Protein Name	DNA repair protein RAD51 homolog 3
UniProt Gene Name	RAD51C
UniProt Synonym Gene Names	RAD51L2; R51H3
UniProt Entry Name	RA51C_HUMAN

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.

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