G-Biosciences Image not found or type unknown

Immunotag™ PCNA Antibody

Antibody Specification

Catalog No.	ITA6152
Product Description	Immunotag™ PCNA Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PCNA
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human PCNA
Specificity	PCNA Antibody detects endogenous levels of total PCNA
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PCNA
Accession No.	P12004
Alternate Names	ATLD2; cb16; Cyclin; DNA polymerase delta auxiliary protein; etID36690.10; fa28e03; fb36g03; HGCN8729; MGC8367; Mutagen-sensitive 209 protein; OTTHUMP00000030189; OTTHUMP00000030190; PCNA; Pcna/cyclin; PCNA_HUMAN; PCNAR; Polymerase delta accessory protein; Proliferating cell nuclear antigen; wu:fa28e03; wu:fb36g03;

Antibody Specification

Description	Auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways (PubMed:24939902). Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while 'Lys-63'-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	29/31kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.