PCNA Conjugated Monoclonal Antibody

Catalog No: #C27210

Package Size: #C27210-AF350 100ul #C27210-AF405 100ul #C27210-AF488 100ul #C27210-AF555 100ul #C27210-AF594 100ul #C27210-AF647 100ul #C27210-AF680 100ul #C27210-AF750 100ul #C27210-Biotin 100ul

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Description

Product Name	PCNA Conjugated Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Specificity	This antibody detects endogenous levels of PCNA and does not cross-react with related proteins.
Immunogen Description	Purified recombinant human PCNA protein fragments expressed in E.coli.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Cyclin; Cyclin; DNA polymerase delta auxiliary protein; DNA polymerase delta auxiliary protein; HGCN8729; MGC8367; MGC8367; Mutagen-sensitive 209 protein; OTTHUMP00000030189; OTTHUMP00000030190; PCNA; Pcna/cyclin; PCNA_HUMAN; PCNAR;
Accession No.	Swiss-Prot#: P12004NCBI Gene ID:5111
Uniprot	P12004
GeneID	5111;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

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.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.

Note: This product is for in vitro research use only