10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PARP10 Rabbit pAb

Catalog # AP97913

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q53GL7
Other Accession	Q53GL7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109998
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PARP10
Epitope Specificity	331-430/1025
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 PARP catalytic domain.
Post-translational modifications	Stimulated through its phosphorylation by CDK2. Acquires CDK-dependent phosphorylation through late-G1 to S phase, and from prometaphase to cytokinesis in the nucleolar organizing regions. Phosphorylation is suppressed in growth-arrested cells.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Poly(ADP-ribose) polymerases (PARPs), such as PARP10, regulate gene transcription by altering chromatin organization by adding ADP-ribose to histones. PARPs can also function as transcriptional cofactors (Yu et al., 2005 [PubMed 15674325]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	84875
Other Names	ARTD10; PARP-10; PAR10_HUMAN; PARP10; ADP-ribosyltransferase diphtheria toxin-like 10 (ARTD10); Poly [ADP-ribose] polymerase 10 (PARP-10); 2.4.2.-; poly(ADP-ribose) polymerase family member 10
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PARP10 (HGNC:25895)
Function	ADP-ribosyltransferase that mediates mono-ADP-ribosylation of glutamate and aspartate residues on target proteins (PubMed:18851833, PubMed:23332125, PubMed:23474714, PubMed:25043379). In contrast to PARP1 and PARP2, it is not able to mediate poly-ADP-ribosylation (PubMed:18851833). Catalyzes mono-ADP-ribosylation of GSK3B, leading to negatively regulate GSK3B kinase activity (PubMed:23332125). Involved in translesion DNA synthesis in response to DNA damage via its interaction with PCNA (PubMed:24695737).
Cellular Location	Nucleus, nucleolus. Cytoplasm. Note=Shuttles between the nuclear and cytoplasmic compartment (PubMed:15674325). A subpopulation concentrates in the nucleolus during late G1/S phase (PubMed:15674325)
Tissue Location	Highly expressed in spleen and thymus (PubMed:15674325). Intermediate levels in liver, kidney, pancreas, prostate, testis, ovary, intestine, and leukocytes (PubMed:15674325) Low expression in heart, brain, placenta, lung, skeletal muscle, and colon (PubMed:15674325).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.