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

PARP10 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22182c

Product Information

Application	WB, E
Primary Accession	Q53GL7
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56269
Calculated MW	109998

Additional Information

Gene ID	84875
Other Names	Poly [ADP-ribose] polymerase 10, PARP-10, 2.4.2.30, ADP-ribosyltransferase diphtheria toxin-like 10, ARTD10, PARP10
Target/Specificity	This PARP10 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 565-597 amino acids from the Central region of human PARP10.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PARP10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

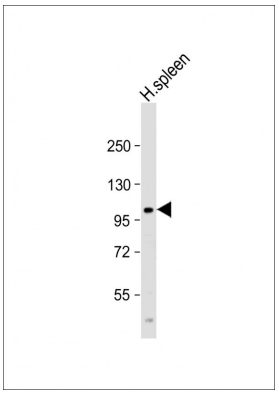
Background

May play a role in cell proliferation. May be required for the maintenance of cell cycle progression.

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Yu M.,et al.Oncogene 24:1982-1993(2005).
Chou H.Y.,et al.J. Biol. Chem. 281:15201-15207(2006).
Choudhary C.,et al.Science 325:834-840(2009).

Images



Anti-PARP10 Antibody (Center) at 1:2000 dilution + human spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 110 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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