

Rabbit anti-Human, Mouse PARP2 Polyclonal Antibody | anti-PARP2 antibody

PARP2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324310	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PARP2; Polyclonal Antibody; PARP2 Antibody; ADP ribosyltransferase like 2; ADP-ribosyltransferase diphtheria toxin-like 2; ADPRT 2; ADPRT-2; ADPRT2; ADPRTL 2; ADPRTL 3; ADPRTL2; ADPRTL3; ARTD2; hPARP 2; hPARP-2; hPARP2; NAD(+) ADP ribosyltransferase 2; NAD(+) ADP-ribosyltransferase 2; pADPRT 2; pADPRT-2; pADPRT2; PARP 2; PARP-2; PARP2_HUMAN; Poly (ADP ribose) polymerase family member 2; Poly (ADP ribosyl) transferase like 2; poly (ADP-ribose) polymerase 2; Poly [ADP ribose] synthetase 2; Poly [ADP-ribose] polymerase 2; Poly(ADP ribose) synthetase; Poly[ADP-ribose] synthase 2; anti-PARP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	PARP2 antibody detects endogenous levels of total PARP2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	570
Applicable Applications for anti-PARP2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Widely expressed, mainly in actively dividing tissues. The highest levels are in the brain, heart, pancreas, skeletal muscle and testis; also detected in kidney, liver, lung, placenta, ovary and spleen; levels are low in leukocytes, colon, small intestine, prostate and thymus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Zebrafish (80%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (92%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324310 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from K562 using PARP2 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PARP2 antibody	Function: Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribose)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism (PubMed:10364231, PubMed:28190768). This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks (PubMed:10364231). Mediates serine ADP-ribosylation of target proteins following interaction with HPF1; HPF1 conferring serine specificity (PubMed:28190768). Subunit Structure: Component of a base excision repair (BER) complex, containing at least XRCC1, PARP1, POLB and LIG3 (By similarity). Homo- and heterodimer with PARP1 (PubMed:20092359). Interacts weakly (via the PARP catalytic domain) with HPF1 (PubMed:27067600, PubMed:28190768). Post-translational Modifications: Poly-ADP-ribosylated by PARP1. Acetylation reduces DNA binding and enzymatic activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110825963
NCBI GeneID	10038
NCBI Accession #	NP_001036083.1
NCBI GenBank Nucleotide #	NM_001042618.1
UniProt Accession #	Q9UGN5; Q8TEU4; Q9NUV2; Q9UMR4; Q9Y6C8
Molecular Weight	Observed: 75 kD Predicted: 67 kDa
NCBI Official Full Name	poly
NCBI Official Synonym Full Names	poly(ADP-ribose) polymerase 2
NCBI Official Symbol	PARP2
NCBI Official Synonym Symbols	ARTD2; ADPRT2; PARP-2; ADPRTL2; ADPRTL3; pADPRT-2
NCBI Protein Information	poly [ADP-ribose] polymerase 2
UniProt Protein Name	Poly [ADP-ribose] polymerase 2
UniProt Gene Name	PARP2
UniProt Synonym Gene Names	ADPRT2; ADPRTL2; PARP-2; hPARP-2; ARTD2; ADPRT-2; pADPRT-2

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.