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Polyclonal Antibody to PARP1 - Purified

Alternate names: ADPRT, ADPRT 1, NAD(+) ADP-ribosyltransferase 1, PARP-1, PPOL, Poly [ADP-ribose] polymerase 1, Poly[ADP-ribose] synthetase 1

Catalog No.: AP15715PU-N

Quantity: 1 ml

Background: PARP (Poly (ADP-ribose) polymerase) is a 113 kDa nuclear protein which can exist as a homo- or hetero-dimer, and is strongly activated by DNA strand breaks. This protein acts as a molecular “nick sensor” and functions in base excision repair, poly(ADPribosyl)ation of acceptor proteins involved in chromatin architecture and DNA metabolism, and participates in protein modification to enhance or repress transcription. PARP also plays a role in other cellular processes, including cell proliferation and differentiation. PARP is ribosylated by PARP2, and during apoptosis, ICE family members, such as caspase 3 and 7, cleave PARP to yield an 85 kDa and a 25 kDa fragment. PARP cleavage is considered to be one of the classical characteristics of apoptosis. PARP interacts with proteins in the base excision repair complex containing at least XRCC1, PARP2, POLB and LIG3. In addition PARP forms heterodimers with PARP2, and interacts with PARP3.

Uniprot ID: P09874

NCBI: 9606

GeneID: 142

Host: Rabbit

Immunogen: A synthetic peptide derived from N-terminus of Human PARP protein.

Format: **State:** Liquid purified Ig fraction.
Purification: Affinity Chromatography.
Buffer System: PBS, pH 7.6 with 1% BSA as stabilizer and 0.09% Sodium Azide as preservative.

Applications: Western Blot.
Immunohistochemistry on Paraffin Sections: 1/100 for 10 min at RT.
Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.
Positive Control: Raji cells, Tonsil
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes PARP.
Cellular Localisation: Nucleus.

Species Reactivity: **Tested:** Human.
Expected from sequence similarity: Mouse and Rat.

Add. Information: **Molecular Weight:** 116 kDa

Storage: Store the antibody undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: one year from despatch.

Pictures: Human tonsil stained with Anti-PARP antibody