

Product datasheet for **AM32038SU-N**

PARP4 Mouse Monoclonal Antibody [Clone ID: P193-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	P193-4
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/10-1/20 (preferably with ECL). Immunohistochemistry: Use 1/10-1/20 for staining of paraformaldehyde (4%) fixed cytospin preparations and frozen tissue sections. <i>Pretreatment:</i> 10 min 20 mM Glycine in PBS (pH 7.5) and 10 min 6 N Guanidine Hydrochloride in 50 mM Tris-HCl, pH 7.5 (See Schroeijs et al., 2000).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	E. coli lysate transformed with pET28a(+) expression vector containing amino acids 408-611 of the p193 cDNA.
Specificity:	This Monoclonal antibody P193-4 reacts with an internal epitope (amino acids 491-494, HPGE) of the minor vault protein (P193 or VPARP), which is overexpressed in various Human non-P-glycoprotein MDR tumor cell lines, accordingly to an increase in the number of vault particles.
Formulation:	State: Liquid Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	poly(ADP-ribose) polymerase family member 4



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Database Link: [Entrez Gene 143 Human Q9UKK3](#)

Background: PARP-1 is a nuclear protein that is specifically cleaved by caspase-3 and caspase-6, but not by caspase-1, into a signature apoptotic fragment. PARP-2 and PARP-3 interact with PARP-1. PARP-4, also designated vault poly(ADP-ribose) polymerase (VPARP) and ADP-ribotransferase-like 1 (ADPRTL1), associates with the major vault protein (MVP) and telomerase-associated protein 1 (TEP1) to form vaults, barrel-shaped cytoplasmic ribonucleoprotein particles. PARP-4 localizes mainly to the cytoplasm but is also found in the nucleus. The PARP-4 protein is expressed widely, with highest levels observed in the kidney, and is also detected in skeletal muscle, heart, leukocytes, placenta, lung, liver, spleen, and pancreas. PARP-4 contains a PARP (ADPRT)-like catalytic domain, a C-terminal MVP-interacting domain, a domain with two sequences similar to inter-alpha-trypsin inhibitor, and an N-terminal BRCA1 C-terminus (BRCT) domain, which may be involved in protein-protein interactions.

Synonyms: PARP-4, ADPRTL1, KIAA0177, PARPL, VPARP