

PARP1 (10C2) Mouse mAb

db6467

Package : 50μL 100μL

Product Name : PARP1 (10C2) Mouse mAb**Cat.No.:** db6467**Synonyms** : PARP1; ADPRT; PPOL; Poly [ADP-ribose] polymerase 1; PARP-1; ADP-ribosyltransferase diphtheria toxin-like 1; ARTD1; NAD(+) ADP-ribosyltransferase 1; ADPRT 1; Poly[ADP-ribose] synthase 1**Application** : WB, IHC-P**Reactivity** : Human, Mouse, Rat**Host species** : Mouse**Background**

Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. 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/17177976, PubMed/18172500, PubMed/19344625, PubMed/19661379, PubMed/23230272). Mediates the poly(ADP-ribosyl)ation of APLF and CHFR (PubMed/17396150). Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. With EEF1A1 and TXK, forms a complex that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production (PubMed/17177976). Required for PARP9 and DTX3L recruitment to DNA damage sites (PubMed/23230272). PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites (PubMed/23230272). Mediates serine ADP-ribosylation of target proteins following interaction with HPF1; HPF1 conferring serine specificity (PubMed/28190768). Mediates the poly(ADP-ribosyl)ation of histones in a HPF1-dependent manner (PubMed/27067600). Involved in the synthesis of ATP in the nucleus, together with NMNAT1, PARG and NUDT5 (PubMed/27257257). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed/27257257).

Immunogen

Synthetic Peptide of Cleaved PARP

Gene ID

142

Swiss Prot

P09874

Synonyms

PARP1; ADPRT; PPOL; Poly [ADP-ribose] polymerase 1; PARP-1; ADP-ribosyltransferase diphtheria toxin-like 1; ARTD1; NAD(+) ADP-ribosyltransferase 1; ADPRT 1; Poly[ADP-ribose] synthase 1

Reactivity

Human, Mouse, Rat

Application	WB, IHC-P
Recommended dilution	WB: 1:500-1:1000 IHC: 1:50-1:100
Calculated MW	113 kDa
Observed MW	116 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	10C2-1A2-8F8
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.

- Western blot analysis of PARP1 (10C2) in Hela, MCF-7 and Jurkat lysates using PARP (10C2) antibody.
- Immunohistochemistry analysis of paraffin-embedded Human Tonsil Tissue using Cleaved PARP antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.
- Western blot analysis of PARP1 (10C2) in K562, Ramos, Jurkat lysates using PARP (1C2) antibody.
- Western blot analysis of PARP1 (10C2) in 3T3, Hela lysates using PARP1 (10C2) antibody.