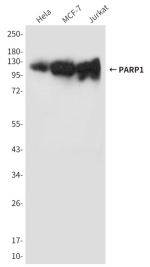
PARP1 (10C2) Mouse mAb

db6467 **Package : 50μL 100μL**

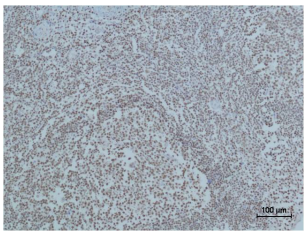
Product Name : PARP1 (10C2) Mouse mAb
Cat.No.: db6467
Synonyms : PARP1; ADPRT; PPOL; Poly [ADP-ribose] polymerase 1; PARP-1; ADP-ribosyltransferase diphtheria toxin-like 1; ARTD1; NAD(+) ADP-ribosyltransferase 1; ADPRT 1; Poly[ADP-ribose] synthase 1
Application : WB, IHC-P
Reactivity : Human, Mouse,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

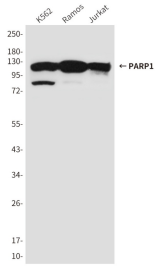
Application	WB, IHC-P
Recommended dilution	WB: 1:500-1:1000 IHC: 1:50-1:100
Calculated MW	113 kDa
Observed MW	116 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	10C2-1A2-8F8
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS,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



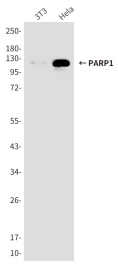
Western blot analysis of PARP1 (10C2) in Hela, MCF-7 and Jurkat lysates using PARP (10C2) antibody.



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.