Best Tools for immunology Research

Cleaved PARP1 (PT0046R) PT® Rabbit mAb

Catalog No :	YM8021
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	PARP1
Fields :	>>Base excision repair;>>NF-kappa B signaling pathway;>>Apoptosis;>>Necroptosis;>>Diabetic cardiomyopathy
Gene Name :	PARP1
Protein Name :	Poly [ADP-ribose] polymerase 1
Human Gene Id :	142
Human Swiss Prot No :	P09874
Mouse Swiss Prot No :	P11103
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1000,WB 1:500-5000,IF 1:200-1000,ELISA 1:5000-20000,IP 1:50-200
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	25kD
Observed Band :	25kD

Background : This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes. [provided by RefSeq, Jul 2008],

Function : catalytic activity:NAD(+) + (ADP-D-ribosyl)(n)-acceptor = nicotinamide + (ADP-D-ribosyl)(n+1)-acceptor.,function: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.,miscellaneous:The ADP-D-ribosyl group of NAD(+) is transferred to an acceptor carboxyl group on a histone or the enzyme itself, and further ADP-ribosyl groups are transferred to the 2'-position of the terminal adenosine moiety, building up a polymer with an average chain length of 20-30 units.,PTM:Phosphorylated by PRKDC. Phosphorylated upon DNA damage, probably by ATM or ATR.,PTM:Poly-ADP-ribosylated by PARP2.,similarity:Contains 1 BRCT

Subcellular Location : Cytoplasmic, Nuclear

Expression : Brain,Colon carcinoma,Fibroblast,Lung,Ovarian carcinoma,Skin,

Tag : hot,recombinant

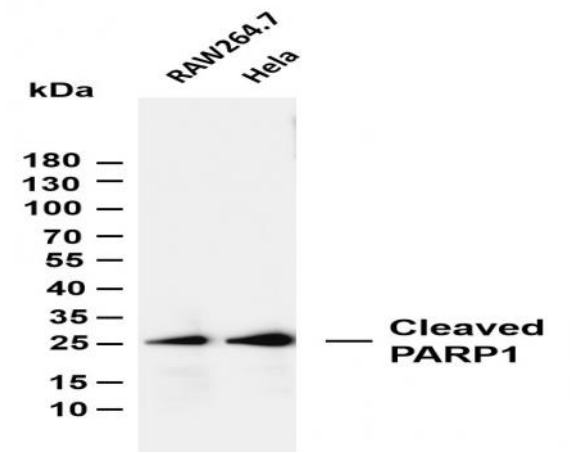
Sort : 264

No4 : 1

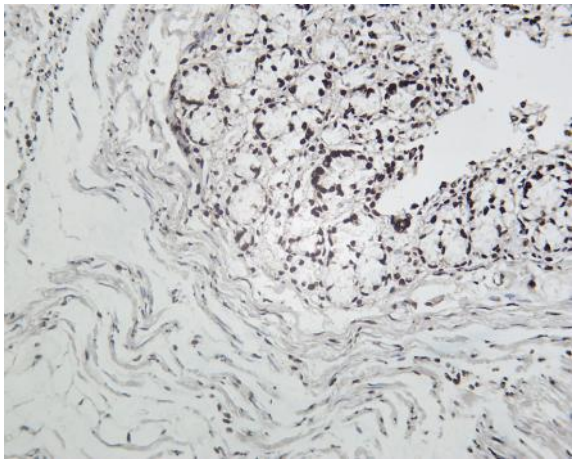
Host : Rabbit

Modifications : Unmodified

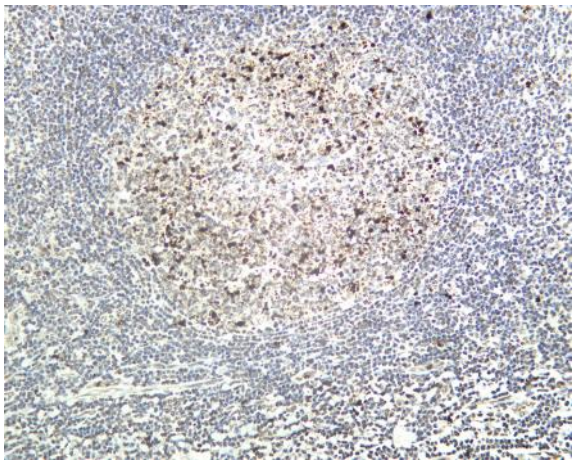
Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cleaved PARP1 (PT0046R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: RAW264.7 Lane 2: Hela Predicted band size: 25kDa



Rat colon tissue was stained with Anti-Cleaved PARP1 (PT0046R) rabbit Antibody



Human tonsil tissue was stained with Anti-Cleaved PARP1 (PT0046R) rabbit Antibody