Data Sheet (Cat.No.TMAY-01509)

Anti-PARP Antibody (1W26)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1W26
Purification:	Protein A

Applications

Verified Activity:

1. Immunochemical staining of human PARP1 in human placenta with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. Positive staining was localized to nucleus.
2. Immunochemical staining of human PARP1 in human lymph node with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. Positive staining was localized to nucleus.
3. Immunochemical staining of human PARP1 in human breast with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. Positive staining was localized to nucleus.
4. Immunochemical staining of human PARP1 in human brain with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. Positive staining was localized to nucleus.
5. PARP1 was immunoprecipitated using:
-Lane A:0.5 mg Jurkat Whole Cell Lysate
-0.5 µL anti-PARP1 mouse monoclonal antibody and 15 µl of 50 % Protein G agarose.
-Primary antibody:
-Anti-PARP1 mouse monoclonal antibody, at 1:500 dilution.
-Secondary antibody:
-Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution.
-Developed using the odyssey technique.
-Performed under reducing conditions.
-Predicted band size: 113 kDa.
-Observed band size: 113 kDa.
6. Anti-PARP1 mouse monoclonal antibody at 1:500 dilution.
-Lane A: Jurkat Whole Cell lysate.
-Lysates/proteins at 30 µg per lane.
-Secondary
-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.
-Developed using the Odyssey technique.
-Performed under reducing conditions.
-Predicted band size:113 kDa.
-Observed band size:113 kDa

Application:	IHC-P,IP,WB
Recommended	WB: 1:500-1:1000; IHC-P: 1:100-1:500; IP: 0.2-1 μL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human PARP-1 / PARP protein (TMPY-01188)
Antigen Species:	Human
Synonyms:	PARP;Adprp;C80510;Adprt1;ARTD1;poly (ADP-ribose) polymerase 1;PPOL;5830444G22Rik; parp-1;sPARP-1;AI893648
Biology Area:	Cancer Drug Targets

Research Background

Poly (ADP-ribose) polymerase 1(PRAP1), also known as NAD(+) ADP-ribosyltransferase 1(ADPRT), is a chromatin-associated enzyme that modifies various nuclear proteins by poly(ADP-ribosyl)ation. 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 2-3 units. The poly(ADP-ribosyl)ation modification is critical for a wide range of processes, including DNA repair, regulation of chromosome structure, transcriptional regulation, mitosis and apoptosis. PARP1 is demonstrated to mediate the poly(ADP-ribose) ation of APLF (aprataxin PNK-like factor) and CHFR (checkpoint protein with FHA and RING domains), two representative proteins involved in the DNA damage response and checkpoint regulation. Further, It has been suggested that DNA-dependent protein kinase (DNA-PK), another component of DNA repair, suppresses PARP activity, probably through direct binding and/or sequestration of DNA-ends which serve as an important stimulator for both enzymes. PARP1 inhibitors are thus proposed as a targeted cancer therapy for recombination deficient cancers, such as BRCA2 tumors.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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