

**Mouse Anti-PARP1 [F2]: MC0291, MC0291RTU7**

**Intended Use:** For Research Use Only

**Description:** 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.

**Specifications:**

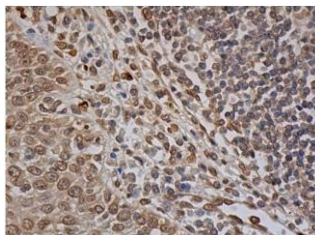
Clone: F2  
 Source: Mouse  
 Isotype: IgG2a/k  
 Reactivity: Human  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, IF, IP, WB  
 Package:

Description	Catalog No.	Size
PARP1 Concentrated	MC0291	1 ml
PARP1 Prediluted	MC0291RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Brain  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-PARP1 using DAB

**References:**

1. A search for ceramide binding proteins using bifunctional lipid analogs yields CERT-related protein StarD7. Bockelmann S. J Lipid Res. Mar;59(3):515-530, 2018.
2. Roles of B7-H3 in Cervical Cancer and Its Prognostic Value. Han S. J Cancer. Jun 23;9(15):2612-2624, 2018.
3. Target engagement imaging of PARP inhibitors in small-cell lung cancer. Carney B. Nat Commun. Jan 12;9(1):176, 2018.
4. Newly established tumorigenic primary human colon cancer cell lines are sensitive to TRAIL-induced apoptosis in vitro and in vivo. Oikonomou E1. Br J Cancer. Jul 2;97(1):73-84. Epub 2007 Jun 5, 2007.
5. Lovastatin-induced RhoA modulation and its effect on senescence in prostate cancer cells. Lee J. Biochem Biophys Res Commun. Jan 20;339(3):748-54, 2006.

Doc. 100-MC0291  
Rev. A