

Anti-Cleaved PARP PARP1 Rabbit Monoclonal Antibody

Catalog Number: M00122-1

About PARP1

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-Cleaved PARP PARP1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cleaved PARP PARP1 Rabbit Monoclonal Antibody catalog # M00122-1. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal HI-16
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P09874

Technical Details

Immunogen	A synthesized peptide derived from human Cleaved PARP
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:
WB 1:500-1:2000
IHC 1:50-1:100

Anti-Cleaved PARP PARP1 Rabbit Monoclonal Antibody (M00122-1) Images

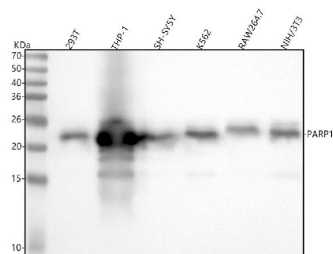
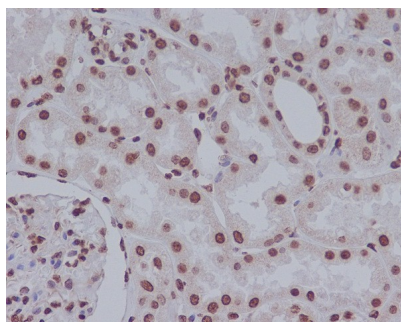


Figure 1. Western blot analysis of PARP1 using anti-PARP1 antibody (M00122-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human 293T whole cell lysates,
Lane 2: human THP-1 whole cell lysates,
Lane 3: human SH-SY5Y whole cell lysates,
Lane 4: human K562 whole cell lysates,
Lane 5: mouse Raw264.7 whole cell lysates,
Lane 6: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PARP1 antigen affinity purified monoclonal antibody (Catalog # M00122-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PARP1 at approximately 25 kDa. The expected band size for PARP1 is at 25,113 kDa.



Immunohistochemical analysis of paraffin-embedded human kidney, using Cleaved PARP Antibody.

4 Publications Citing This Product

1. PubMed ID: -, Kig,C.,Mertoglu,E.,Caliskan,A.et al.Selective and oxidative stress-mediated cell death of MCF-7 cell line induced by terpinolene.Biologia(2021).<https://doi.org/10.1007/s11756-021-00803-z>
2. PubMed ID: 33655702, Zheng GS,Tan YM,Shang YY,Liu YP,Hu BA,Wang D,Han L,Wang ZH,Zhang W,Ti Y,Zhong M. CIDEc silencing attenuates diabetic nephropathy via inhibiting apoptosis and promoting autophagy. J Diabetes Investig. 2021 Mar 2.doi:10.1111/jdi.13534.Epub ahead of print.PMID:33655702.
3. PubMed ID: 33382670, Chen H,Sheng H,Zhao Y,Zhu G.Piperine Inhibits Cell Proliferation and Induces Apoptosis of Human Gastric Cancer Cells by Downregulating Phosphatidylinositol 3-Kinase (PI3K)/Akt Pathway.Med Sci Monit.2020 Dec 31;26:e928403.doi:10.12659/MSM.928403.PMID:33382

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