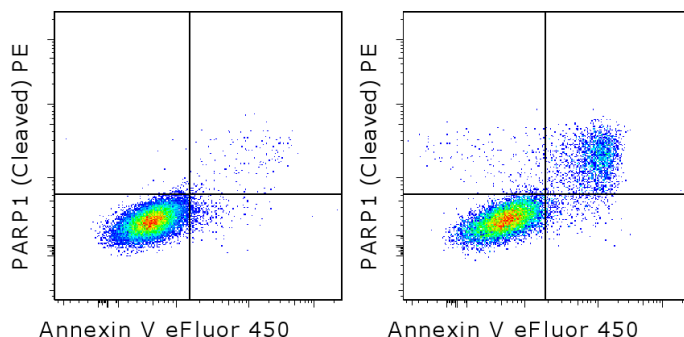


Anti-Human PARP1 (Cleaved) PE

Catalog Number: 12-6668

Also known as: poly ADP-ribose polymerase

RUO: For Research Use Only. Not for use in diagnostic procedures.



Jurkat cells were left unstimulated (left) or stimulated for 20 hours with Anti-Human CD95 (APO-1/Fas) Functional Grade Purified (cat. 16-0958) coated at 5 ug/mL in a 24-well culture plate (right). The stimulated cells were then harvested and stained sequentially with Fixable Viability Dye eFluor® 780 (cat. 65-0865) and the Annexin V Apoptosis Detection Kit eFluor® 450 (cat. 88-8006), then fixed and permeabilized with the Fopx3 Staining Buffer Set (cat. 00-5523) and stained with Anti-Human PARP1 (Cleaved) PE. Total viable cells (Fixable Viability Dye eFluor® 780 negative) were used for analysis.

Product Information



Contents: Anti-Human PARP1 (Cleaved) PE

Catalog Number: 12-6668

Clone: HLNC4

Concentration: 5 uL (0.002 ug)/test

Host/Isotype: Mouse IgG2b, kappa



Formulation: aqueous buffer, 0.09% sodium azide, contains stabilizer if necessary

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial



Use By: Refer to vial

Contains sodium azide

Description

This HLNC4 monoclonal antibody reacts with human poly (ADP-ribose) polymerase (PARP1). This ubiquitous 116 kDa nuclear enzyme is involved in DNA repair. During apoptosis, active caspases -3, -6 and -7 cleave PARP1 after Asp214, thereby inactivating PARP1 and generating two apoptotic fragments sized 85 kDa and 25 kDa.

The HLNC4 antibody specifically recognizes the 85 kDa PARP1 fragment produced after cleavage and does not recognize the full-length 116 kDa protein. The following peptide was used as the immunogen: NH2-GVDEVAKKKSKEKDC-COOH.

Applications Reported

This HLNC4 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This HLNC4 antibody has been pre-titrated and tested by flow cytometric analysis of staurosporine-stimulated Jurkat cells using the Fopx3 Buffer Set and protocol. (Refer to Protocol B: One step protocol for intracellular (nuclear) proteins). This can be used at 5 µL (0.002 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

Patel T, Gores GJ, Kaufmann SH. The role of proteases during apoptosis. FASEB J. 1996. Apr;10(5):587-97. Review.

Tewari M, Quan LT, O'Rourke K, Desnoyers S, Zeng Z, Beidler DR, Poirier GG, Salvesen GS, Dixit VM. Yama/CPP32 beta, a mammalian homolog of CED-3, is a CrmA-inhibitable protease that cleaves the death substrate poly(ADP-ribose) polymerase. Cell. 1995. Jun 2;81(5):801-9.

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Lamarre D, Talbot B, de Murcia G, Laplante C, Leduc Y, Mazen A, Poirier GG. Structural and functional analysis of poly(ADP ribose) polymerase: an immunological study. *Biochim Biophys Acta*. 1988. Jul 13;950(2):147-60.

Lamarre D, Talbot B, Leduc Y, Muller S, Poirier G. Production and characterization of monoclonal antibodies specific for the functional domains of poly(ADP-ribose) polymerase. *Biochem Cell Biol*. 1986. Apr;64(4):368-76.

Zahradka P, Ebisuzaki K. Poly(ADP-ribose) polymerase is a zinc metalloenzyme. *Eur. J. Biochem*. 1984.142: 503-509.

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

16-0958 Anti-Human CD95 (APO-1/Fas) Functional Grade Purified (EOS9.1)

65-0865 Fixable Viability Dye eFluor® 780

88-8006 Annexin V Apoptosis Detection Kit eFluor® 450