

# PARP1 (cleaved Asp214) Monoclonal Antibody (HLNC4), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HLNC4
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574097

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	-

## Product Specific Information

**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: NH<sub>2</sub>-GVDEVAKKKSKKEKDC-COOH.

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

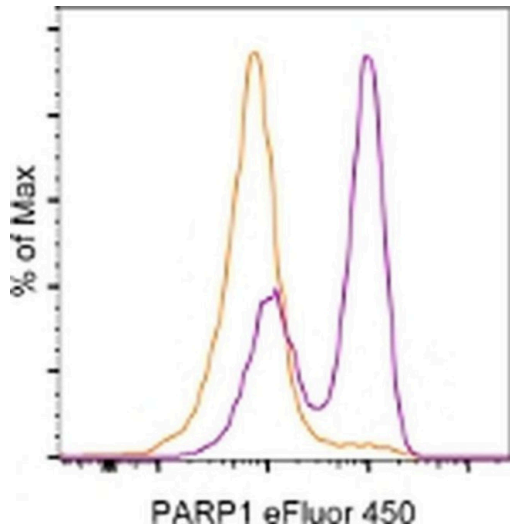
**Applications Tested:** This HLNC4 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of Jurkat cells using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for (nuclear) intracellular proteins located under the Resources Tab online. This can be used at 5 µL (0.06 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For PARP1 (cleaved Asp214) Monoclonal Antibody (HLNC4), eFluor™ 450, eBioscience™**



**PARP1 (cleaved Asp214) Antibody (48-6668-42) in Flow**  
Intracellular staining of unstimulated (orange histogram) or staurosporine-stimulated (purple histogram) Jurkat cells with Anti-Human PARP1 (Cleaved) eFluor® 450 using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Total cells were used for analysis.

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