PARP1 (cleaved Asp214) Monoclonal Antibody (HLNC4), Alexa Fluor™ 488, 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), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HLNC4
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 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_10671273

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.015 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: NH2-GVDEVAKKKSKKEKDC-COOH.

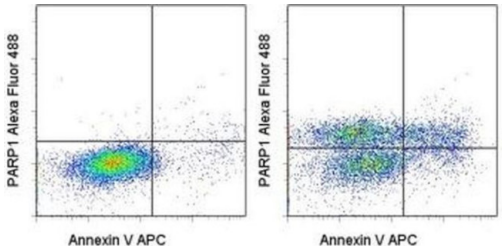
Applications Reported: This HLNC4 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This HLNC4 antibody has been pre-titrated and tested by flow cytometric analysis of staurosporine-stimulated Jurkat cells using the Foxp3/Transcription Factor Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: intracellular Staining. Protocol B: One step protocol for intracellular (nuclear) proteins). This can be used at 5 µL (0.015 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 10^5 to 10^8 cells/test.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For PARP1 (cleaved Asp214) Monoclonal Antibody (HLNC4), Alexa Fluor™ 488, eBioscience™



PARP1 (cleaved Asp214) Antibody (53-6668-42) in Flow
Surface staining with Annexin V Apoptosis Detection Kit APC (Product # 88-8007-72) followed by intracellular staining of Jurkat cells stimulated with staurosporine for 2 hours (right) or left unstimulated (left) with Anti-Human PARP1 (Cleaved) Alexa Fluor® 488 (right) using Foxp3 Staining Buffer Set and protocol (Product # 00-5523-00). Total cells were used for analysis.