ARG57124
anti-PARP2 antibody [29G4]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [29G4] recognizes PARP2
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	29G4
Isotype	IgG2a, kappa
Target Name	PARP2
Species	Human
Immunogen	Recombinant fragment around aa. 233-583 of Human PARP2
Conjugation	Un-conjugated
Alternate Names	EC 2.4.2.30; hPARP-2; ARTD2; NAD; pADPRT-2; PARP-2; Poly [ADP-ribose] polymerase 2; Poly[ADP-ribose] synthase 2; ADP-ribosyltransferase diphtheria toxin-like 2; ADPRT-2; ADPRTL2; ADPRTL3; ADPRT2

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
WB	1:250 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

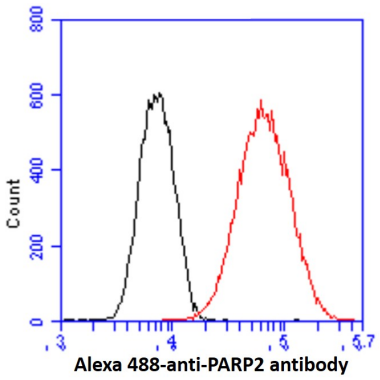
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

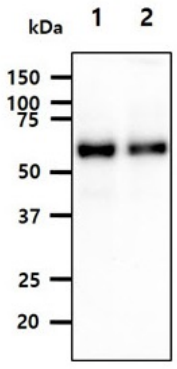
Database links	GeneID: 10038 Human Swiss-port # Q9UGN5 Human
Gene Symbol	PARP2
Gene Full Name	poly (ADP-ribose) polymerase 2
Background	This gene encodes poly(ADP-ribosyl)transferase-like 2 protein, which contains a catalytic domain and is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. The basic residues within the N-terminal region of this protein may bear potential DNA-binding properties, and may be involved in the nuclear and/or nucleolar targeting of the protein. Two alternatively spliced transcript variants encoding distinct isoforms have been found. [provided by RefSeq, Jul 2008]
Function	Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. [UniProt]
Calculated Mw	66 kDa
PTM	Poly-ADP-ribosylated by PARP1. Acetylation reduces DNA binding and enzymatic activity.

Images



ARG57124 anti-PARP2 antibody [29G4] FACS image

Flow Cytometry: U87MG cell line stained with ARG57124 anti-PARP2 antibody [29G4] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).



ARG57124 anti-PARP2 antibody [29G4] WB image

Western blot: 40 µg of 1) Raji, and 2) NIH-3T3 cell lysates stained with ARG57124 anti-PARP2 antibody [29G4] at 1:500.