

Poly (ADP-Ribose) ELISA Kit

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CATALOG #
AAA11446

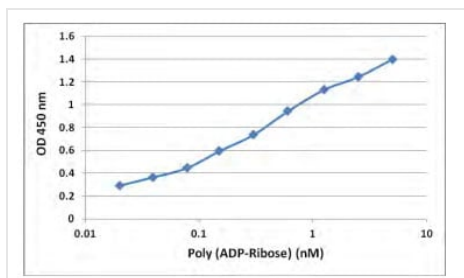
PRODUCT SYNONYMS

Poly (ADP-Ribose); Poly (ADP-Ribose) ELISA Kit; Poly (ADP-Ribose) elisa kit

PRODUCT SPECIFICATIONS

Assay Type	Quantitative Sandwich
Preparation and Storage	Upon receipt, aliquot store the Poly (ADP-Ribose) Standard at -80 degree C and the antibodies at 20 degree C. Avoid multiple freeze/thaw cycles. Store all other components at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Poly (ADP-Ribose) elisa kit

Background: Poly ADP-ribosylation (PAR), the addition of several ADP-ribose groups to proteins, is a posttranslational modification in eukaryotic cells that modulates the activity of the modified proteins and their interaction with other ones. This modification is mediated by poly (ADP-ribose) polymerases (PARPs) and ADP-ribosyltransferase 2 (ART2) that use nicotinamide adenine dinucleotide (NAD) as a substrate. ADP-ribosylation can be reversed by PAR-degrading enzymes like poly (ADP-ribose) glycohydrolase (PARG) and ADP-ribosylhydrolase 3 (ARH3) (Figure 1). Poly ADP-ribosylation is involved in different biological functions like carcinogenesis, differentiation and cell death. Dysregulation of ADP-ribosylation activity has been implicated in the pathogenesis of diseases like cancer, virus infections, and neurodegeneration. One of the most studied roles of ADP-ribosylation is the generation of PAR chains in response to DNA damage. These PAR chains are used to recruit repair proteins and chromatin remodelers. In consequence, DNA repair processes are enhanced. This could be a mechanism for tumors to escape apoptosis. Recently, several inhibitors of PARP family members have shown promise in treating certain cancers, and three drugs are commercially available in the US and Europe, mainly for the treatment of BRCA-mutant ovarian cancer.

Principle of the Assay: The Poly (ADP-ribose) ELISA kit is a sandwich ELISA for the quantitative measurement of PAR. The samples or PAR standards are first added to a monoclonal anti-PAR antibody coated microplate. After a brief incubation, an anti-PAR polyclonal detection antibody is added, followed by an HRP conjugated secondary antibody. After adding the substrate a colorimetric reaction takes place that can be measured with a colorimetric plate reader. The PAR content in unknown samples is determined by comparing this absorbance with the ones from the PAR polymer standard curve.

Product Categories/Family for Poly (ADP-Ribose) elisa kit

Oxidative Stress/Damage; DNA/RNA Damage and Repair; PAR ELISA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/elisa-kits/poly-adp-ribose/11446>