TREVIGEN® Product Data

For Research Use Only. Not For Use In Diagnostic Procedures

Anti-PAR Rabbit Polyclonal Antibody

Catalog #: 4336-BPC-100 **Size:** 100 µl

Description: A rabbit polyclonal antibody raised against poly(ADP-ribose) (PAR) polymer. The anti-PAR polyclonal antibody can be used to detect ribosylated proteins by immunodetection. Trevigen's PARP treated control protein (cat# 4500-10-P) and PAR polymer (cat# 4336-100-01) may be used as positive controls.

Physical State: This polyclonal antibody is a purified IgG fraction in 1X PBS containing 50% glycerol.

Immunogen: Poly(ADP-ribose) polymer

Specificity: This polyclonal antibody detects free PAR and poly-ribosylated proteins.

Storage: -20°C (manual defrost freezer).

Applications: For Western and dot blotting, an antibody dilution of 1:1000 is recommended. For ELISA a 1:4000 antibody dilution is recommended. Empirical determination of antibody dilutions will be required for optimum results.

Cell Lysates for Western Blotting:

To prepare total cell lysates, cells are solubilized in 1X SDS gel sample buffer (63 mM Tris, pH 6.8, 10% glycerol, 2% SDS, 2.5% β-mercaptoethanol, and 0.0025% bromophenol blue) at 5 x 10^5 - 1 x 10^6 cells per ml. The extracts are heated in a boiling water bath for 5 minutes. Electrophorese on 4-12% Tris-Glycine SDS-PAGE gels.

Procedure for Immunoblotting using Peroxidase Detection:

Blotting buffer: 12 mM Tris base, 96 mM Glycine, and 20% MeOH.
Blocking solution: 5% (w/v) nonfat dry milk in PBS.
Antibody solution: 5% (w/v) nonfat dry milk, 0.05% Tween in PBS.

Transfer the electrophoresed proteins to an Immobilon-FL or PVDF membrane and incubate the membrane for 1 hour at room temperature in blocking solution.

Incubate the membrane overnight at 4°C in antibody solution containing a 1:1000 dilution of anti-PAR rabbit polyclonal antibodies. Empirical determination of primary antibody concentration will be required for optimal results.

Wash the membrane at room temperature for 15 minutes with 3 changes of 0.05% Tween in PBS. Changing the membrane containers often reduces background.

Incubate the membrane at room temperature for 1 hour in antibody solution containing anti-rabbit conjugated to horseradish peroxidase.

Empirical determination of the secondary antibody concentration will be required for optimal results.

Wash the membrane for 15 minutes with 3 changes of 0.05% Tween in PBS.

Develop peroxidase reaction using chemiluminescence.

References:

1. Affar, E.B., et al. 1998. Immunodot blot method for the detection of poly(ADP-ribose) synthesized *in vitro* and *in vivo*. Anal Biochem **259**:280-283.
2. Shah, G.M., et al. 1995. Methods for biochemical study of poly(ADP-ribose) metabolism *in vitro* and *in vivo*. Anal Biochem **227**:1-13.

Related Products:

Catalog#	Description	Size
4335-MC-100	Anti-PAR Monoclonal Antibody	100 µl
4335-MC-100-AC	Anti-PAR Monoclonal Antibody w/Control	100 µl
4520-096-K	PARP in vivo Pharmacodynamic Assay II	96 samples

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