

# TREVIGEN<sup>®</sup> Product Data

*For Research Use Only. Not For Use In Diagnostic Procedures*

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## Anti-PAR Rabbit Polyclonal Antibody

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

**Size:** 100  $\mu$ l

**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%  $\beta$ -mercaptoethanol, and 0.0025% bromophenol blue) at  $5 \times 10^5$  -  $1 \times 10^6$  cells per ml. The extracts are heated in a boiling water bath for 5 minutes. Electrophoresis 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.

## TREVIGEN<sup>®</sup>

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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 tests

**Anti-PAR Rabbit  
 Polyclonal Antibody  
 Cat#: 4336-BPC-100  
 Storage: -20°C  
 (Manual Defrost Freezer)  
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