

Datasheet for 600-401-J27**PARL Antibody****Overview**

Description:	Anti-PARL (RABBIT) Antibody - 600-401-J27
Item No.:	600-401-J27
Size:	100 µg
Applications:	WB
Reactivity:	Human, Mouse, Rat, Chicken, Primate
Host Species:	Rabbit

Product Details

Background:	PARL (presenilin associated, rhomboid-like) encodes a mitochondrial integral membrane protein. Following proteolytic processing of this protein, a small peptide (P-beta) is formed and translocated to the nucleus. This gene may be involved in signal transduction via regulated intramembrane proteolysis of membrane-tethered precursor proteins. Variation in this gene has been associated with increased risk for type 2 diabetes. Alternative splicing results in multiple transcript variants encoding different isoforms. Anti-PARL antibodies are ideal for researchers interested in Apoptosis, Alzheimer's Research, Neuroscience, and Mitochondrial Fusion Proteins research.
Synonyms:	rabbit anti-PARL antibody, p-beta, Pbeta, presenilin associated rhomboid-like protein mitochondrial, PRO2207, Mitochondrial intramembrane cleaving protease PARL, PSARL
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PARL
Reactivity:	Human, Mouse, Rat, Chicken, Primate
Immunogen Type:	Conjugated Peptide
Immunogen:	PARL affinity purified antibody was prepared from whole rabbit serum produced by repeated immunization from a synthetic peptide corresponding to the C terminus region of human PARL.

Purity/Specificity: Anti-PARL was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards PARL. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, Rat, Chicken, and Primate based on 100% sequence homology. Cross-reactivity with PARL (presenilin associated, rhomboid-like) from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9H300](#)
- [NCBI - NP_061092.3](#)
- [GeneID - 55486](#)

Application Details

Suggested Applications: WB (Based on references)

Application Note: Anti-PARL antibody is useful for ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~42.2 kDa corresponding to the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:20,000 - 1:60,000

IF: 1:100-1:500

IHC: 1:100-1:500

WB: 1 µg/ml

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 0.86 mg/ml by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: None

Stabilizer: 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is six (6) months from date of receipt.

References

- Siebert V et al. Cleavage of mitochondrial homeostasis regulator PGAM5 by the intramembrane protease PARL is governed by transmembrane helix dynamics and oligomeric state. *J Biol Chem.* (2022)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.