

Datasheet for D610-0050**Rabbit Gamma Globulin Fraction****Overview**

Description:	Rabbit Gamma Globulin Fraction - D610-0050
Item No.:	D610-0050
Size:	50 mg
Applications:	SDS-PAGE, ELISA
Origin:	Rabbit

Product Details

Background:	Rabbit Gamma Globulin Fraction consists of the fraction of blood serum which contains whole antibodies as well as other non-albumin plasma proteins. Gamma globulins can be utilized therapeutically to temporarily boost an patient's immunity (such as after an immunosuppressive infection) or to increase the likelihood of kidney transplant acceptance. Gamma Globulin Fraction can be utilized in molecular biology experiments as a control reagent.
Synonyms:	Plasma Gamma Globulin, Serum Gamma Globulin, Globulin Fractions, Gammaglobulin, rabbit gamma fraction
Species of Origin:	Rabbit
Type:	Native Protein

Target Details

Purity/Specificity:	Rabbit Gamma Globulin product was prepared from normal Rabbit serum by a multi-step process which includes delipidation and salt fractionation followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in precipitin arcs against anti-Rabbit Serum corresponding to gamma globulins.
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Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	ELISA (Based on references)

Application Note:	Rabbit Gamma Globulin Fraction has been tested by SDS-PAGE and can be utilized in Western Blotting, Immunohistochemistry and ELISA experiments.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IF:	User Optimized
IHC:	User Optimized
WB:	User Optimized

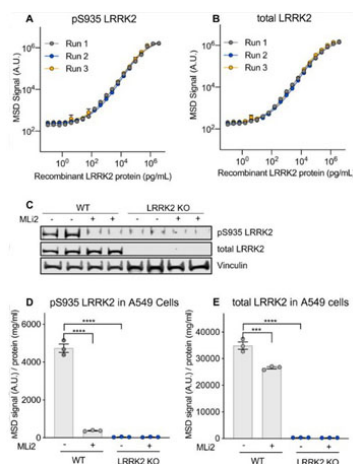
Formulation

Physical State:	Lyophilized
Concentration:	11 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store Rabbit Gamma at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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 one (1) year from date of receipt.

Images



ELISA

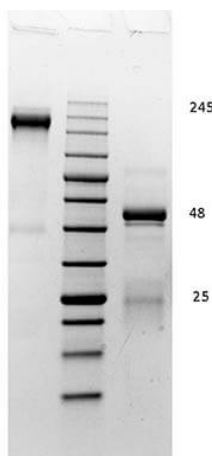
Development of specific, quantitative and high-throughput assays to measure pS935 LRRK2 and total LRRK2. (A,B) Novel MSD assays to measure pS935 LRRK2 and total LRRK2 levels can detect increasing amounts of recombinant LRRK2 protein; n = 3. (C) Specific detection of pS935 LRRK2 and total LRRK2 was confirmed in WT and LRRK2 KO A549 cells with and without LRRK2 kinase inhibitor treatment (MLi-2, 500 nM, 2 h) measured by western blot analysis. (D,E)

Consistent with western blot data, the LRRK2 MSD assays specifically detected pS935 LRRK2 and total LRRK2 in A549 cells; n = 3. MSD signals were normalized for protein concentration, and data are shown as mean $\pm$ SEM with p values: one-way ANOVA with Tukey's multiple comparison test; ***p $\leq$ 0.001, ****p $\leq$ 0.0001; AU, arbitrary units.

Detection antibodies (15 μ l for 384-well) were added to each well diluted in TBST containing 25% MSD blocker A with rabbit (p/n D610-1000) and mouse gamma globin fraction (p/n D609-0100). Fig 1. PMID: 34145320.

SDS-PAGE

SDS PAGE of Rabbit Gamma Globulin. Lane 1: Non-Reduced Rabbit Gamma Globulin. Lane 2: 5 μ L Opal Prestained Marker MB-210-0500. Lane 3: Reduced Rabbit Gamma Globulin. Load: 1 μ g per lane. Predicted/Observed size: Non-Reduced at 160kDa; Reduced at 55, 25 kDa.



References

- Maloney MT et al. LRRK2 kinase activity regulates Parkinson's disease-relevant lipids at the lysosome. *Mol Neurodegener.* (2025)
- Sun S et al. Macrophage LRRK2 hyperactivity impairs autophagy and induces Paneth cell dysfunction. *Sci Immunol.* (2024)
- Bondar VV et al. Rab12 regulates LRRK2 activity by promoting its localization to lysosomes. *bioRxiv [preprint]* (2023)
- Wang X et al. Rab12 is a regulator of LRRK2 and its activation by damaged lysosomes. *Elife.* (2023)
- Wang X et al. Understanding LRRK2 kinase activity in preclinical models and human subjects through quantitative analysis of LRRK2 and pT73 Rab10. *Sci Rep.* (2021)

Disclaimer

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