

## Human Leucine-Rich Repeat Serine/Threonine-Protein Kinase 2 (LRRK2) ELISA Kit | LRRK2 elisa kit

Human Leucine-Rich Repeat Serine/Threonine-Protein Kinase 2 (LRRK2) ELISA Kit

CATALOG #  
**AAA331922**

REACTIVITY  
**Human**

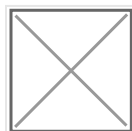
### PRODUCT SYNONYMS

Leucine-Rich Repeat Serine/Threonine-Protein Kinase 2 (LRRK2); Human Leucine-Rich Repeat Serine/Threonine-Protein Kinase 2 (LRRK2) ELISA Kit; LRRK2; AURA17; DARDARIN; PARK8; RIPK7; ROCO2; augmented in rheumatoid arthritis 17; LRRK2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Leucine-rich repeat serine/threonine-protein kinase 2 (LRRK2) ELISA Kit has high sensitivity and excellent specificity for detection of Human LRRK2. No significant cross-reactivity or interference between Human LRRK2 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Length         | 2527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



Standard Curve (Sample)

Fig.1. Human Leucine-rich repeat serine/threonine-protein kinase 2 (LRRK2) Standard Curve.

ADDITIONAL INFORMATION

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|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for LRRK2 elisa kit | <p>Description: This Human Leucine-rich repeat serine/threonine-protein kinase 2 (LRRK2) ELISA Kit employs a two-site sandwich ELISA to quantitate LRRK2 in samples. An antibody specific for LRRK2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LRRK2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LRRK2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LRRK2 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: LRRK2 encodes a protein with an ankyrin repeat region, a leucine-rich repeat (LRR) domain, a kinase domain, a DFG-like motif, a RAS domain, a GTPase domain, an MLK-like domain, and a WD40 domain. The protein is present largely in the cytoplasm but also associates with the mitochondrial outer membrane.LRRK2 interacts with the C-terminal R2 RING finger domain of parkin, and parkin interacted with the COR domain of LRRK2. Expression of mutant LRRK2 induced apoptotic cell death in neuroblastoma cells and in mouse cortical neurons. Mutations in this gene have been associated with Parkinson's disease type 8.Four LRRK2 gene variants found are found in a third of Parkinson's cases, but infrequent in the general population.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| NCBI GI #                        | 171846278                                             |
| NCBI GeneID                      | 120892                                                |
| NCBI Accession #                 | NP_940980.3                                           |
| NCBI GenBank Nucleotide #        | NP_940980.3                                           |
| UniProt Accession #              | Q5S007                                                |
| NCBI Official Full Name          | leucine-rich repeat serine/threonine-protein kinase 2 |
| NCBI Official Synonym Full Names | leucine rich repeat kinase 2                          |
| NCBI Official Symbol             | LRRK2                                                 |
| NCBI Official Synonym Symbols    | PARK8; RIPK7; ROCO2; AURA17; DARDARIN                 |
| NCBI Protein Information         | leucine-rich repeat serine/threonine-protein kinase 2 |
| UniProt Protein Name             | Leucine-rich repeat serine/threonine-protein kinase 2 |
| UniProt Gene Name                | LRRK2                                                 |
| UniProt Synonym Gene Names       | PARK8                                                 |
| UniProt Entry Name               | LRRK2_HUMAN                                           |

**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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/leucine-rich-repeat-serine-threonine-protein-kinase-2-lrrk2/331922>