

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human LRRN1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human NLRR-3 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human LRRN1 Ser26-Ala631 Accession # AAH34947
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

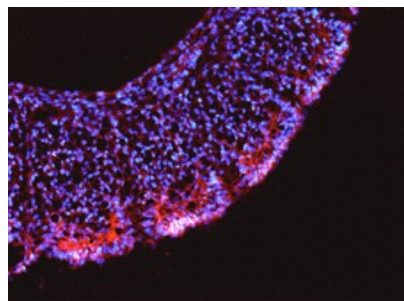
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human LRRN1/NLRR-1
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## DATA

### Immunohistochemistry



#### LRRN1/NLRR-1 in Embryonic Mouse Somites.

LRRN1/NLRR-1 was detected in immersion fixed frozen sections of embryonic mouse somites (E9.5) using 10 µg/mL Sheep Anti-Human LRRN1/NLRR-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4990) overnight at 4 °C. Tissue was stained with the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

LRRN1 (Leucine-rich repeat neuronal protein 1; NLRR1) is a 95 kDa member of the neuronal LRR family of proteins. It is a cell-surface glycoprotein that is expressed on embryonic motor neurons and somatic myoblasts. Human LRRN1 is 716 amino acids (aa) in length. It is a type I transmembrane protein that contains a 606 aa extracellular region (aa 26-631) and a short 64 aa cytoplasmic tail. The extracellular region shows eleven LRRs (aa 94-384) that mediate protein-protein interactions, one C2-type Ig-like domain and one fibronectin type III domain. There is one potential alternate start site at Met286. Over aa 26-631, human LRRN1 shares 96% aa sequence identity with mouse LRRN1.