



Biotinylated Anti-human LRRN1/NLRR-1 Antibody

ORDERING INFORMATION

Catalog Number: BAF4990

Lot Number: CBHB01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human LRRN1 extracellular domain

Immunogen: NS0-derived rhLRRN1 extracellular domain

Ig Type: sheep IgG

Application: Western blot

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 identity with mouse LRRN1.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human LRRN1 extracellular domain (rhLRRN1; aa 26 - 631; Accession # AAH34947). Human LRRN1 specific IgG was purified by human LRRN1 affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human LRRN1 Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human LRRN1. The detection limit for rhLRRN1 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 5% cross-reactivity with rhNLRR-3.

Optimal dilutions should be determined by each laboratory for each application.