

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NOD1.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NOD1 Lys830-Phe953 Accession # Q9Y239
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

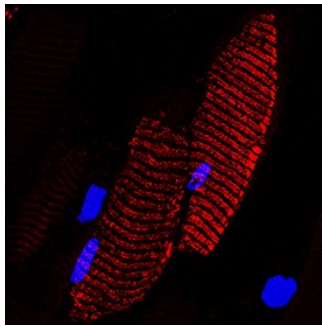
APPLICATIONS

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
Immunohistochemistry	1-15 µg/mL	See Below

DATA

Immunohistochemistry



NOD1 in Mouse Skeletal Muscle. NOD1 was detected in immersion fixed frozen sections of mouse skeletal muscle using Sheep Anti-Human NOD1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7090) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NOD1, also called CARD4, is a 108 kDa intracellular pattern recognition receptor of the Nod-like receptor (NLR or Caterpillar) family. This innate immune receptor recognizes the muramyl peptide, diaminopimelic acid. The 953 amino acid (aa) NOD1 contains a caspase recognition domain (CARD), an NTPase domain and 10 leucine-rich repeats (LRR). Splicing variants of 925 and 779 aa lack all or part of LRR 7-10 and do not respond to muramyl peptides. Polymorphisms of NOD1 are associated with inflammatory bowel disease. Within aa 830-953 (LRR 7-110), human NOD1 shares 82% and 84% aa identity with mouse and rat NOD1, respectively.