Human NOD1 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 626919

Catalog Number: FAB7090R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NOD1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human NOD2 is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 626919
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human NOD1 Lys830-Phe953 Accession # Q9Y239
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

NOD1, also called CARD4, is a 108 kDa intracellular pattern recognition receptor of the Nod-like receptor (NLR or Caterpiller) 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.

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