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20-1075: Polyclonal antibody to NOD1

Clonality :	Polyclonal
Application :	WB,IHC,IP
Reactivity :	Human
Gene :	NOD1
Gene ID :	10392
Uniprot ID :	Q9Y239
Format :	Sera
Alternative Name :	NOD1,CARD4
Isotype :	Rabbit IgG
Immunogen Information :	A synthetic peptide of human NOD1 (amino acids 494-512 QLGFLRALPELGPGGDQQS) was used as immunogen for this antibody

Description

This antibody recognizes NOD1 (CARD4). Human NOD1 (CARD4) is a 953 amino acid protein. NOD (nucleotide-binding oligomerization domain) proteins are a family of cytosolic proteins which have been implicated in innate recognition of bacteria, the induction of inflammatory responses, and the regulation of caspase activation and apoptosis. NOD1/CARD4 (caspase-recruitment domain 4 gene) is a PRM that recognizes specific peptidoglycan (PGN) components of bacterial cell walls. NOD1 is expressed by cell types that are exposed to PGN under physiological conditions including antigen-presenting cells (APCs) such as macrophages and dendritic cells, and epithelial cells (reviewed in Strober et al. 2006). NOD1 is thought to play a role in the pathogenesis of human gastrointestinal disease and is associated with inflammatory bowel diseases and asthma. It is involved in host defense against Helicobacter pylori infection of the gastric mucosa, a chronic infection that can lead to peptic ulcers and gastric cancer.

Product Info

Amount :	50 μl
Content :	50 μl sera
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200



Fig:1 Formalin-fixed, paraffin-embedded section of human sebaceous gland (A) and colon (B) stained for NOD1 expression using NOD1 antibody at 1:2000. Hematoxylin counterstain. 10X magnification



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Fig:2 Formalin-fixed, paraffin-embedded sections of human colon (A, A1) and pancreas (B, B1) stained for NOD1 expression (NOD1 antibody at 1:2000) using a DAB chromogen and Hematoxylin counterstain. Magnification: A (20X), A1 (40X). B (10X), B1 (40X).