

Datasheet: AHP1015

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|----------------------|-------------------------------------|
| Description: | RABBIT ANTI HUMAN NOD2 (C-TERMINAL) |
| Specificity: | NOD2 (C-TERMINAL) |
| Format: | Purified |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 0.1 mg |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry | | | ■ | |
| Immunohistology - Frozen | ■ | | | |
| Immunohistology - Paraffin | | | ■ | |
| ELISA | | | ■ | |
| Immunoprecipitation | | | ■ | |
| Western Blotting | ■ | | | 2 - 4ug/ml |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

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|---------------------------------------|---|
| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Antiserum Preparation | Antisera to NOD2 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography. |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.02% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 0.5mg/ml |
| Immunogen | 14 amino acids at carboxy terminus of human NOD2. |

External Database Links

UniProt:

[Q9HC29](#)

[Related reagents](#)

Entrez Gene:[64127](#) NOD2 [Related reagents](#)**Synonyms**

CARD15, IBD1

Specificity

Rabbit anti Human NODs antibody recognizes NOD2, an intracellular protein of ~100 kDa, which belongs to the NOD (nucleotide binding oligomerisation domain) family. The NOD family comprises at present more than 20 different mammalian NOD-LRR (leucine-rich repeat) proteins, which are involved in the regulation of apoptosis and the immune response.

NOD2 has been shown to be constitutively or inducibly expressed in monocytes, macrophages, T and B cells, dendritic cells, as well as intestinal epithelial cells. A specific motif of peptidoglycan (PGN), muramyl dipeptide (MDP), has been identified as the sole I

NOD2 and Toll-like receptors (TLR) are emerging as key mediators of innate host defence in the intestinal mucosa, crucially involved in maintaining mucosal and commensal homeostasis.

Mutations in the gene encoding NOD2 are a major susceptibility factor underlying a significant subgroup of patients with Inflammatory bowel disease 1 ([IBD1](#)), a disease characterized by chronic relapsing inflammation of the gastrointestinal tract, subdivided into Crohn disease and ulcerative colitis phenotypes ([Hugot et al. 2001](#)). Mutations can also lead to development of Blau syndrome ([BLAUS](#)) a rare autosomal dominant condition demonstrating early onset granulomatous arthritis, skin rash and uveitis ([Parkhouse et al. 2014](#)). Additionally mutations in this gene can lead to development of Early onset sarcoidosis ([EOS](#)) characterized by the formation of immune granulomas in affected organs, most often the lungs and lymphatics but often other organs can be involved ([Okada et al. 2009](#)).

Western Blotting

AHP1015 detects a band of approximately 100kDa in HeLa cell lysate.

Further Reading

1. Inohara, N. & Nuñez, G. (2003) NODs: intracellular proteins involved in inflammation and apoptosis. [Nat Rev Immunol. 3 \(5\): 371-82.](#)
2. Cario, E. (2005) Bacterial interactions with cells of the intestinal mucosa: Toll-like receptors and NOD2. [Gut. 54 \(8\): 1182-93.](#)
3. Girardin, S.E. et al. (2003) Nod2 is a general sensor of peptidoglycan through muramyl dipeptide (MDP) detection. [J Biol Chem. 278 \(11\): 8869-72.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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