

**NLRX1 / NOD9 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3143a****Specification**

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**NLRX1 / NOD9 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">Q86UT6</a>
Other Accession	<a href="#">NP_078894.2</a> , <a href="#">NP_733840.1</a> , <a href="#">79671</a>
Reactivity	Human
Predicted	Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	107616

**NLRX1 / NOD9 Antibody (internal region) - Additional Information****Gene ID** 79671**Other Names**

NLR family member X1, Caterpillar protein 11.3, CLR11.3, Nucleotide-binding oligomerization domain protein 26, Nucleotide-binding oligomerization domain protein 5, Nucleotide-binding oligomerization domain protein 9, NLRX1, NOD26, NOD5, NOD9

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NLRX1 / NOD9 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**NLRX1 / NOD9 Antibody (internal region) - Protein Information****Name** NLRX1**Function**

Participates in antiviral signaling. Acts as a negative regulator of MAVS-mediated antiviral responses, through the inhibition of the virus-induced RLH (RIG-like helicase)-MAVS interaction (PubMed:<a href="http://www.uniprot.org/citations/18200010" target="\_blank">18200010</a>). Instead, promotes autophagy by interacting with TUFM and subsequently recruiting the autophagy-related proteins ATG5 and ATG12 (PubMed:<a href="http://www.uniprot.org/citations/18200010" target="\_blank">18200010</a>).

[22749352](http://www.uniprot.org/citations/22749352)). Regulates also MAVS-dependent NLRP3 inflammasome activation to attenuate apoptosis (PubMed:[27393910](http://www.uniprot.org/citations/27393910)). Has no inhibitory function on NF-kappa-B signaling pathway, but enhances NF-kappa-B and JUN N-terminal kinase dependent signaling through the production of reactive oxygen species (PubMed:[18219313](http://www.uniprot.org/citations/18219313)). Regulates viral mediated-inflammation and energy metabolism in a sex-dependent manner (By similarity). In females, prevents uncontrolled inflammation and energy metabolism and thus, may contribute to the sex differences observed in infectious and inflammatory diseases (By similarity).

#### Cellular Location

Mitochondrion outer membrane

#### Tissue Location

Ubiquitously expressed. Strongest expression in mammary gland, heart and muscle. Detected in HeLa, HEK293T, THP-1, HL- 60, Raji and Jurkat cell lines (at protein level)

### NLRX1 / NOD9 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NLRX1 / NOD9 Antibody (internal region) - Images



AF3143a (2 µg/ml) staining of Human Breast cancer lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### NLRX1 / NOD9 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP\_078894.2; NP\_733840.1).

#### **NLRX1 / NOD9 Antibody (internal region) - References**

NLRX1 is a mitochondrial NOD-like receptor that amplifies NF-kappaB and JNK pathways by inducing reactive oxygen species production. Tattoli I, Carneiro LA, JÃ©hanno M, Magalhaes JG, Shu Y, Philpott DJ, Arnoult D, Girardin SE, EMBO reports 2008 Mar 9 (3): 293-300. PMID: 18219313