

### NLRX1 / NOD9 Antibody (internal region)

Peptide-affinity purified goat antibody Catalog # AF3143a

## **Specification**

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

Application WB, E
Primary Accession Q86UT6

Other Accession <u>NP\_078894.2</u>, <u>NP\_733840.1</u>, <u>79671</u>

### NLRX1 / NOD9 Antibody (internal region) - Additional Information

### **Gene ID** 79671

### **Other Names**

NLR family member X1, Caterpiller 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

### **Dilution**

WB~~1:1000 E~~N/A

### **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/22749352" target="\_blank">22749352</a>). Also regulates MAVS-dependent NLRP3 inflammasome activation to attenuate apoptosis (PubMed:<a href="http://www.uniprot.org/citations/27393910" target="\_blank">27393910</a>). 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:<a href="http://www.uniprot.org/citations/18219313" target="\_blank">18219313</a>). 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**

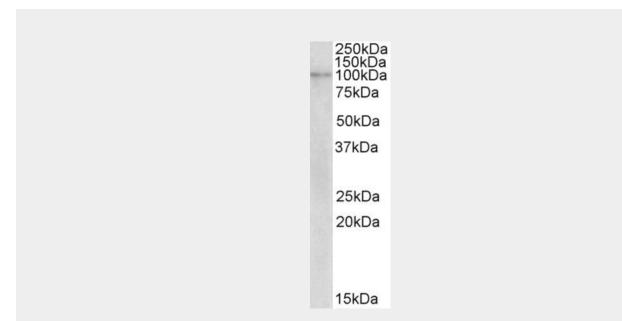
Ubiquitously expressed. Strongest expression in mammary gland, heart and muscle. Detected in HeLa, HEK293T, THP-1, HL- 60, Raji and Jurkat cell lines (at protein level)

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

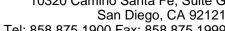
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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, Jéhanno M, Magalhaes JG, Shu Y, Philpott DJ, Arnoult D, Girardin SE, EMBO reports 2008 Mar 9 (3): 293-300. PMID: 18219313