10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	NP_078894.2, NP_733840.1, 79671
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, 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:18200010). Instead, promotes autophagy by interacting with TUFM and subsequently recruiting the autophagy-related proteins ATG5 and ATG12 (PubMed:22749352). Also regulates MAVS-dependent NLRP3 inflammasome activation to attenuate apoptosis (PubMed: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). 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

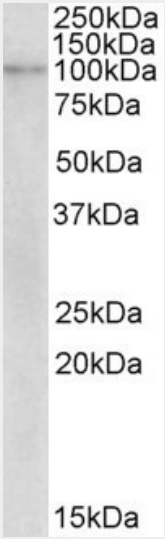
Tissue Location
Ubiquitously expressed. Strongest expression in mammary gland, heart and muscle. Detected in HeLa, HEK293T, THP-1, HL- 60, Raji and Jurkat cell lines (at protein level)

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 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, JÃ©hanno M, Magalhaes JG, Shu Y, Philpott DJ, Arnoult D, Girardin SE, EMBO reports 2008 Mar 9 (3): 293-300. PMID: 18219313