

NMI Antibody
Rabbit mAb
Catalog # AP93099

Specification

NMI Antibody - Product Information

Application **WB, IHC, ICC, IP**
Primary Accession **[Q13287](#)**
Clonality **Monoclonal**
Other Names
N myc interactor; NMI; NMYC and STAT interactor; NMYC interactor;

Isotype **Rabbit IgG**
Host **Rabbit**
Calculated MW **35057 Da**

NMI Antibody - Additional Information

Purification **Affinity-chromatography**
Immunogen **A synthesized peptide derived from human NMI**
Description **NMYC interactor (NMI) encodes a protein that interacts with NMYC and CMYC (two members of the oncogene Myc family), and other transcription factors containing a Zip, HLH, or HLH Zip motif.**
Storage Condition and Buffer **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

NMI Antibody - Protein Information

Name NMI ([HGNC:7854](#))

Function

Acts as a signaling pathway regulator involved in innate immune system response (PubMed: [26342464](http://www.uniprot.org/citations/26342464), PubMed: [29038465](http://www.uniprot.org/citations/29038465), PubMed: [29350881](http://www.uniprot.org/citations/29350881), PubMed: [9989503](http://www.uniprot.org/citations/9989503)). In response to interleukin 2/IL2 and interferon IFN-gamma/IFNG, interacts with signal transducer and activator of transcription/STAT which activate the transcription of downstream genes involved in a multitude of signals for development and homeostasis (PubMed: [29377960](http://www.uniprot.org/citations/29377960), PubMed: [9989503](http://www.uniprot.org/citations/9989503)). Enhances the recruitment of CBP/p300 coactivators to STAT1 and STAT5, resulting in increased STAT1- and STAT5-dependent transcription (PubMed: [9989503](http://www.uniprot.org/citations/9989503))

target="_blank">9989503). In response to interferon IFN-alpha, associates in a complex with signaling pathway regulator IFI35 to regulate immune response; the complex formation prevents proteasome-mediated degradation of IFI35 (PubMed:10779520, PubMed:10950963). In complex with IFI35, inhibits virus-triggered type I IFN-beta production when ubiquitinated by ubiquitin-protein ligase TRIM21 (PubMed:26342464). In complex with IFI35, negatively regulates nuclear factor NF-kappa-B signaling by inhibiting the nuclear translocation, activation and transcription of NF-kappa-B subunit p65/RELA, resulting in the inhibition of endothelial cell proliferation, migration and re-endothelialization of injured arteries (PubMed:29350881). Negatively regulates virus-triggered type I interferon/IFN production by inducing proteasome-dependent degradation of IRF7, a transcriptional regulator of type I IFN, thereby interfering with cellular antiviral responses (By similarity). Beside its role as an intracellular signaling pathway regulator, also functions extracellularly as damage-associated molecular patterns (DAMPs) to promote inflammation, when actively released by macrophage to the extracellular space during cell injury or pathogen invasion (PubMed:29038465). Macrophage-secreted NMI activates NF-kappa-B signaling in adjacent macrophages through Toll-like receptor 4/TLR4 binding and activation, thereby inducing NF-kappa-B translocation from the cytoplasm into the nucleus which promotes the release of pro-inflammatory cytokines (PubMed:29038465).

Cellular Location

Cytoplasm. Nucleus. Secreted Note=Cytoplasmic NMI localizes in punctate granular structures (PubMed:10950963, PubMed:9781816). Nuclear localization increased following IFN-alpha treatment (PubMed:10950963, PubMed:9781816) Extracellular following secretion by macrophage (PubMed:29038465)

Tissue Location

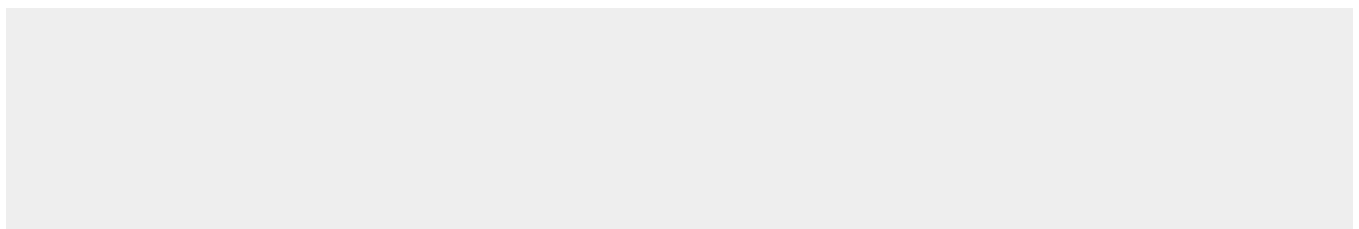
Expressed in adult spleen, liver, and kidney (PubMed:9781816). Expressed in fetal thymus, liver, placenta, spleen, lung, and kidney but not brain (PubMed:9781816). Expressed in macrophages (PubMed:29038465).

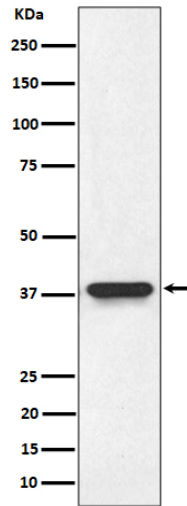
NMI Antibody - Protocols

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](#)

NMI Antibody - Images





Western blot analysis of NMI expression in HeLa cell lysate.