

NMRL1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9906a**Specification**

NMRL1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9HBL8](#)**NMRL1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 57407**Other Names**

NmrA-like family domain-containing protein 1, NMRAL1, HSCARG

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NMRL1 Antibody (N-term) Blocking Peptide - Protein Information**Name** NMRAL1**Synonyms** HSCARG**Function**

Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP(+) levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsequently prevents apoptosis. Under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. The homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP(+). Binding to NADPH is necessary to form a stable dimer.

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Note=Under normal redox growth conditions localizes in the cytoplasm and perinuclear region. Nuclear localization is promoted by increased intracellular nitric oxide and reduced NADPH/NADP(+) ratios

NMRL1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NMRL1 Antibody (N-term) Blocking Peptide - Images**NMRL1 Antibody (N-term) Blocking Peptide - References**

Lian, M., et al. J. Biol. Chem. 284(27):17998-18006(2009) Dai, X., et al. J. Mol. Biol. 387(5):1277-1285(2009) Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009) Zhao, Y., et al. J. Biol. Chem. 283(16):11004-11013(2008)