

Datasheet for ABIN2780056  
**anti-NMRAL1 antibody (N-Term)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µL
Target:	NMRAL1
Binding Specificity:	N-Term
Reactivity:	Rat, Mouse, Cow, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NMRAL1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the n terminal region of mouse Nmral1
Sequence:	GATGAQGGSV ARALLEDGTF RIRVVTRNPE QRAAKELKQQ GAEVVRGDQD
Predicted Reactivity:	Cow: 79%, Dog: 79%, Mouse: 100%, Pig: 86%, Rat: 86%
Characteristics:	This is a rabbit polyclonal antibody against Nmral1. It was validated on Western Blot.
Purification:	Affinity Purified

## Target Details

Target:	NMRAL1
Alternative Name:	Nmral1 ( <a href="#">NMRAL1 Products</a> )
Background:	Nmral1 is a redox sensor protein. Nmral1 undergoes restructuring and subcellular redistribution

## Target Details

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. Nmral1 has higher affinity for NADPH than for NADP+. Binding to NADPH is necessary to form a stable dimer.

Alias Symbols: 1110025F24Rik, AI256624

Protein Size: 309

Molecular Weight: 34 kDa

Gene ID: 67824

NCBI Accession: [NM\\_026393](#), [NP\\_080669](#)

UniProt: [Q8K2T1](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 309 AA

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

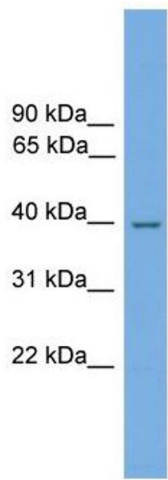
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small

aliquots to prevent freeze-thaw cycles.



**Western Blotting**

**Image 1.** WB Suggested Anti-Nmral1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Mouse Heart