

## Product datasheet for TA329936

### Nmral1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Nmral1 antibody: synthetic peptide directed towards the n terminal of mouse Nmral1. Synthetic peptide located within the following region: GATGAQGGSVARALLEDTGFRIRVVTRNPEQRAAKELKQQGAEVVRGDQD
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	34 kDa
Gene Name:	NmrA-like family domain containing 1
Database Link:	<a href="#">NP_080669</a> <a href="#">Entrez Gene 67824 Mouse</a> <a href="#">Q8K2T1</a>
Background:	Nmral1 is a redox sensor protein. Nmral1 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. Nmral1 has higher affinity for NADPH than for NADP+. Binding to NADPH is necessary to form a stable dimer.

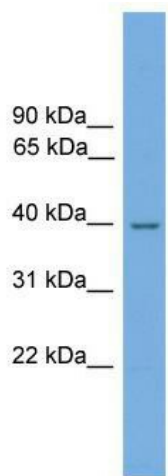


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Synonyms: FLJ25918; HSCARG; SDR48A1

Note: Immunogen sequence homology: Mouse: 100%; Pig: 86%; Rat: 86%; Dog: 79%; Bovine: 79%

### Product images:



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