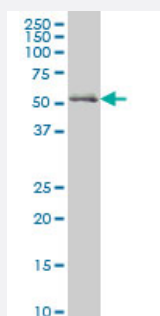


NRF1 monoclonal antibody (M01), clone 2F9

Catalog # H00004899-M01

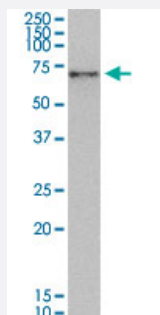
Size 50 ug

Applications



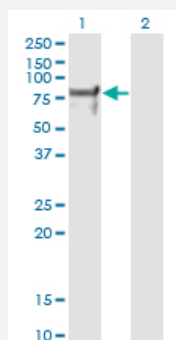
Western Blot (Tissue lysate)

NRF1 monoclonal antibody (M01), clone 2F9. Western Blot analysis of NRF1 expression in human Skeletal muscle.



Western Blot (Cell lysate)

NRF1 monoclonal antibody (M01), clone 2F9. Western Blot analysis of NRF1 expression in HeLa.

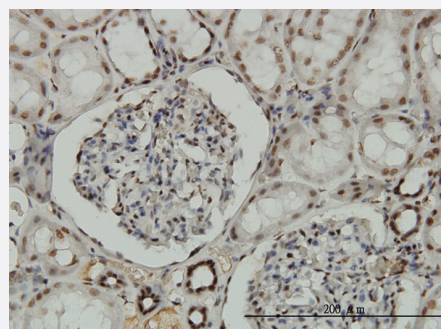


Western Blot (Transfected lysate)

Western Blot analysis of NRF1 expression in transfected 293T cell line by NRF1 monoclonal antibody (M01), clone 2F9.

Lane 1: NRF1 transfected lysate (Predicted MW: 55.7 KDa).

Lane 2: Non-transfected lysate.

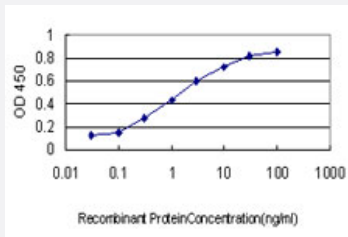


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to NRF1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]

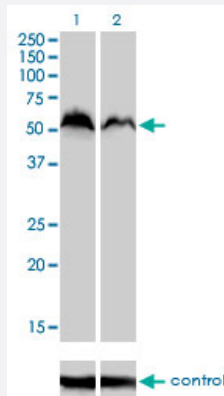
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NRF1 is approximately 0.03ng/ml as a capture antibody.

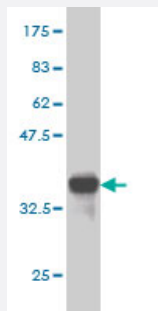


RNAi Knockdown (Antibody validated)

Western blot analysis of NRF1 over-expressed 293 cell line, cotransfected with NRF1 Validated Chimera RNAi (Cat # H00004899-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with NRF1 monoclonal antibody (M01), clone 2F9 (Cat # H00004899-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (35.09 KDa) .



Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant NRF1.
Immunogen	NRF1 (NP_005002, 201 a.a. ~ 285 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	TQAQLRAFIPEMLKYSTGRGKPGWGKESCKPMWPEIPWANVRSDVRTEEQKQQRVSWTQALRTIVKNCYKQHGREDLLYAFEDQ
Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG1 Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (35.09 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

NRF1 monoclonal antibody (M01), clone 2F9. Western Blot analysis of NRF1 expression in human Skeletal muscle.

[Protocol Download](#)

- Western Blot (Cell lysate)

NRF1 monoclonal antibody (M01), clone 2F9. Western Blot analysis of NRF1 expression in HeLa.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of NRF1 expression in transfected 293T cell line by NRF1 monoclonal antibody (M01), clone 2F9.

Lane 1: NRF1 transfected lysate (Predicted MW: 55.7 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to NRF1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NRF1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of NRF1 over-expressed 293 cell line, cotransfected with NRF1 Validated Chimera RNAi (Cat # H00004899-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with NRF1 monoclonal antibody (M01), clone 2F9 (Cat # H00004899-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — NRF1

Entrez GeneID [4899](#)

GeneBank Accession# [NM_005011](#)

Protein Accession# [NP_005002](#)

Gene Name NRF1

Gene Alias ALPHA-PAL

Gene Description nuclear respiratory factor 1

Omim ID [600879](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been associated with the regulation of neurite outgrowth. Alternate transcriptional splice variants, which encode the same protein, have been characterized. Additional variants encoding different protein isoforms have been described but they have not been fully characterized. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1. [provided by RefSeq

Other Designations OTTHUMP00000184912|alpha palindromic-binding protein

Publication Reference

- [Aconitase 2 inhibits the proliferation of MCF-7 cells promoting mitochondrial oxidative metabolism and ROS/FoxO1-mediated autophagic response.](#)

Ciccarone F, Di Leo L, Lazzarino G, Maulucci G, Di Giacinto F, Tavazzi B, Ciriolo MR.

British Journal of Cancer 2020 Jan; 122(2):182.

Application: WB-Tr, Human, MCF-7 cells

- [Tributyltin induces epigenetic changes and decreases the expression of nuclear respiratory factor-1.](#)

Hanaoka S, Ishida K, Tanaka S, Sakamoto S, Okuda K, Sanoh S, Ohta S, Kotake Y.

Metallomics : Integrated Biometal Science 2018 Feb; 10(2):337.

Application: WB-Ce, Human, SH-SY5Y cells

- [Decreased expression of BRCA1 in SK-BR-3 cells is the result of aberrant activation of the GABP Beta promoter by an NRF-1-containing complex.](#)

Thompson C, Macdonald G, Mueller CR.

Molecular Cancer 2011 May; 10:62.

Application: WB-Tr, Human, MCF-7 cells

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)