

NRF1 (D9K6P) Rabbit mAb

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Applications: W, W-S, IP, ChIP, ChIP-seq, C&R, C&T	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 68	Source/Isotype: Rabbit IgG	UniProt ID: #Q16656	Entrez-Gene Id: 4899
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Product Usage Information

For optimal ChIP and ChIP-Seq results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.

Application	Dilution
Western Blotting	1:1000
Simple Western™	1:10 - 1:50
Immunoprecipitation	1:100
Chromatin IP	1:100
Chromatin IP-seq	1:100
CUT&RUN	1:50
CUT&Tag	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

NRF1 (D9K6P) Rabbit mAb recognizes endogenous levels of total NRF1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala175 of human NRF1 protein.

Background

Nuclear respiratory factor 1 (NRF1) was identified as a transcription activator for the gene encoding cytochrome c (1). It was later found to play a role in the nuclear control of mitochondrial function (1). PGC-1 induces the expression of NRF1 and NRF2 (2). NRF1, along with the coactivator PGC-1, stimulates the promoter of mitochondrial transcription factor A, which regulates mitochondrial biogenesis and function (2).

Background References

- Virbasius, C.A. et al. (1993) *Genes Dev* 7, 2431-45.
- Wu, Z. et al. (1999) *Cell* 98, 115-24.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq **C&R:** CUT&RUN **C&T:** CUT&Tag

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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