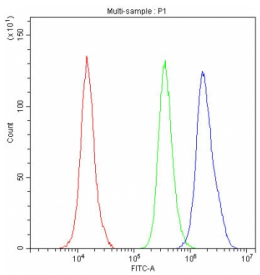
NRF1 Antibody / Nuclear Respiratory Factor 1 (RQ4594)

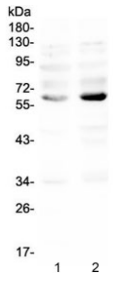
Catalog No.	Formulation	Size
RQ4594	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q16656
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This NRF1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human A431 cells with NRF1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NRF1 antibody.



Western blot testing of human 1) K562 and 2) MDA-MB-231 lysate with NRF1 antibody at 0.5ug/ml. Expected molecular weight: isoforms from 45-67 kDa.

Description

Nuclear respiratory factor 1, is also known as NRF1. 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. Alternative splicing results in multiple transcript variants. 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.

Application Notes

Optimal dilution of the NRF1 antibody should be determined by the researcher.

Immunogen

Amino acids D246-Q503 from the human protein were used as the immunogen for the NRF1 antibody.

Storage

After reconstitution, the NRF1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.