

For Research Use Only

# CoraLite® Plus 488-conjugated NRF2, NFE2L2 Recombinant antibody



Catalog Number:CL488-80593

## Basic Information

<b>Catalog Number:</b> CL488-80593	<b>GenBank Accession Number:</b> BC011558	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4780	<b>CloneNo.:</b> 1I21
<b>Source:</b> Rabbit	<b>Full Name:</b> nuclear factor (erythroid-derived 2)- like 2	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 605 aa, 68 kDa	
<b>Immunogen Catalog Number:</b> AG9489	<b>Observed MW:</b> 110 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
Human, mouse

## Background Information

NRF2, also named as NFE2L2, belongs to the bZIP family and CNC subfamily. It is a transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. NRF2 is important for the coordinated up-regulation of genes in response to oxidative stress. It may be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region. Nrf2 is a key player in the regulation of genes encoding for many antioxidative response enzymes. The expression of NRF2 may be induced under oxidative stress (PMID:14567983). In lung cancer, Nrf2 activation in malignant cells has been associated with tumor progression and chemotherapy resistance (PMID:20534738). Identifying patients with abnormal NRF2 expression may be important for selection for chemotherapy in NSCLC. As new investigators break into the emerging field of Nrf2 research, confusion regarding the correct migratory pattern of Nrf2 is causing doubts about the accuracy and reproducibility of published results. This letter provides solid evidence that the actually observed molecular weight of Nrf2 is about 70kDa and 95-110 kDa. (PMID: 22703241).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

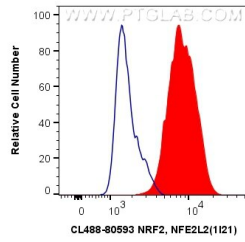
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human NRF2, NFE2L2 (CL488-80593, Clone:1121) (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).