For Research Use Only

## CoraLite®594-conjugated NRF2, NFE2L2 Recombinant monoclonal antibody



**Purification Method:** 

wavelengths:

588 nm / 604 nm

Catalog Number: CL594-80593

**Featured Product** 

**Basic Information** 

Catalog Number: GenBank Accession Number:

CL594-80593 BC011558 Protein A purification
Size: GenelD (NCBI): CloneNo.:

100ul , Concentration: 1000 µg/ml by 4780 1121
Nanodrop; UNIPROT ID: Recommended Dilutions:

Source: Q16236 IF/ICC: 1:50-1:200
Rabbit Full Name: Excitation/Emission maxima

Isotype: nuclear factor (erythroid-derived 2)-

IgG like 2

Immunogen Catalog Number: Calculated MW:

AG9489 605 aa, 68 kDa Observed MW:

Observed I 110 kDa

**Applications** 

**Tested Applications:** 

IF/ICC

Species Specificity: human, mouse

**Positive Controls:** 

IF/ICC: MG132 treated HepG2 cells,

## **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:

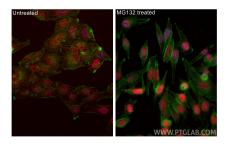
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MG132 treated HepG2 cells using Coralite®594 NRF2, NFE2L2 antibody (CL594-80593, Clone: 1121) at dilution of 1:200, CL488-phalloidin (green).