For Research Use Only

CoraLite® Plus 488-conjugated NRF2, NFE2L2 Polyclonal antibody

Catalog Number:CL488-16396 Featured Product 3 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-16396

Concentration:
1000 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9489

GenBank Accession Number:
BC011558

GeneID (NCBI):
4780

UNIPROT ID:
Q16236

Full Name:
nuclear factor (erythroid-derived 2)-like 2

Calculated MW:
605 aa, 68 kDa

Observed MW:
110 kDa, 68 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
WB, IF

Species Specificity:
human

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : MCF-7 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).

Notable Publications

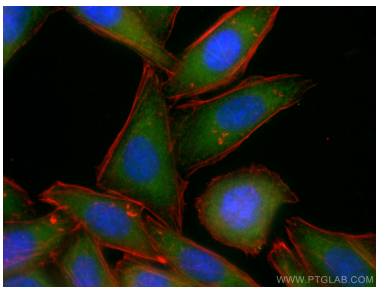
Author	Pubmed ID	Journal	Application
Li-Quan Huang	39908779	Neoplasia	WB
Yanfang Zheng	38631145	Biomed Pharmacother	IF
He Yan	38450909	Environ Toxicol	IF

Storage

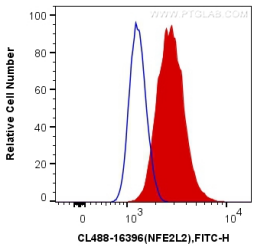
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite® Plus 488 NRF2, NFE2L2 antibody (CL488-16396) at dilution of 1:100, CoraLite®594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red). DAPI (blue).



1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human NRF2, NFE2L2 (CL488-16396) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).