NRF2, NFE2L2
Monoclonal ANTIBODY

Catalog Number: 66504-1-Ig

Basic Information
Catalog Number: 66504-1-Ig
GenBank Accession Number: BC011558
GeneID (NCBI): 4780
CloneNo.: 1E9E3
Recommended Dilutions: WB 1:100-1:4000

Size: 150 μg/150 μl
Source: Mouse
Isotype: IgG2b
Purification Method: Protein A purification
Immunogen Catalog Number: AG9469

Genome Accession Number: BC011558
GeneID (NCBI): 4780
CloneNo.: 1E9E3
Recommended Dilutions: WB 1:100-1:4000

Size: 150 μg/150 μl
Source: Mouse
Isotype: IgG2b
Purification Method: Protein A purification
Immunogen Catalog Number: AG9469

Base Information
Catalog Number: 66504-1-Ig
GenBank Accession Number: BC011558
GeneID (NCBI): 4780
CloneNo.: 1E9E3
Recommended Dilutions: WB 1:100-1:4000

Size: 150 μg/150 μl
Source: Mouse
Isotype: IgG2b
Purification Method: Protein A purification
Immunogen Catalog Number: AG9469

Applications
Tested Applications: WB, ELISA
Cited Applications: WB
Species Specificity: Human
Cited Species: human, mouse

Background Information
NRF2, also named 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:14679563). In lung cancer, Nrf2 activation in malignant cells has been associated with tumor progression and chemotherapy resistance (PMID:25253738). 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 biologically relevant molecular weight of Nrf2 is ~95-110 kDa and not the predicted ~55-65 kDa based on its 2-kilobase open reading frame. The data discussed and presented here will hopefully lead to a uniform acceptance that future experiments and publications should be designed around detecting Nrf2 at the correct molecular weight of ~95-120 kDa (PMID: 22703241).

Notable Publications

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<thead>
<tr>
<th>Author</th>
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<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Shiyue Li</td>
<td>31212129</td>
<td>Biomed Pharmacother</td>
<td>WB</td>
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<tr>
<td>Jin Han</td>
<td>31285477</td>
<td>Sci Rep</td>
<td>WB</td>
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<td>Ting Yi</td>
<td>30148622</td>
<td>Med Sci Ment</td>
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Storage
Storage: Store at -20ºC. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20ºC storage.

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
W: ptglab.com

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Untreated and MG132 treated HeLa cells were subjected to SDS-PAGE followed by western blot with 66504-1-Ig (NRF2, NFE2L2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.