

For Research Use Only

NRF2, NFE2L2 Monoclonal antibody, PBS Only (Detector)



Catalog Number: 66504-1-PBS

Featured Product

Basic Information

Catalog Number: 66504-1-PBS	GenBank Accession Number: BC011558	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 4780	CloneNo.: 1E9E3
Source: Mouse	UNIPROT ID: Q16236	
Isotype: IgG2b	Full Name: nuclear factor (erythroid-derived 2)- like 2	
Immunogen Catalog Number: AG9469	Calculated MW: 605 aa, 68 kDa	
	Observed MW: 110 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

66504-1-PBS targets NRF2, NFE2L2 as part of a matched antibody pair:

MP50316-2: 66504-2-PBS capture and 66504-1-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

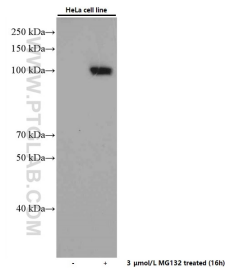
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

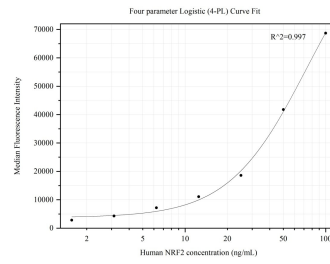
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



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. This data was developed using the same antibody clone with 66504-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50316-2, NRF2, NFE2L2 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66504-2-PBS. Detection antibody: 66504-1-PBS. Standard: Ag9469. Range: 1.563-100 ng/mL.