For Research Use Only

## NRF2, NFE2L2 Recombinant antibody

Catalog Number:80593-1-RR

Featured Product

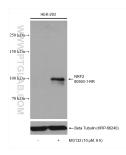
88 Publications



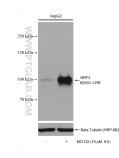
<b>Basic Information</b>	Catalog Number: 80593-1-RR	GenBank Accession Number: BC011558		Purification Method: Protein A purification	
	Concentration: 1000 ug/ml	GenelD (NCBI): 4780 UNIPROT ID: Q16236 Full Name: nuclear factor (erythroid-derived 2)- like 2 Calculated MW: 605 aa, 68 kDa		CloneNo.: 1l21 Recommended Dilutions: WB 1:1000-1:5000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF/ICC 1:300-1:1200	
	Source: Rabbit				
	Isotype: IgG Immunogen Catalog Number: AG9489				
		Observed MW: 110 kDa, 68 kDa			
Applications	Tested Applications:	Positive Controls:			
	WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications:	WB : MG132 t cells, HepG2		reated HEK-293 cells, HEK-293 cells, HeL cells	
	WB, IHC, IF, ChIP		IP : HeLa cells	5,	
	Species Specificity: human			ovary tumor tissue, Human bowens nan pancreas cancer tissue	
	Cited Species: human		IF/ICC : MG132 treated HepG2 cells, HepG2 cells		
Background Information	NRF2, also named as NFE2L2, belongs to the bZIP family and CNC subfamily. It is a transcription activator that bind 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 (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
Yue Li 3	6234847 Moleo	ules	WB,IF		
Jianqiang Hu 3	5303762 Br J Pl	narmacol	WB		
Ye Bai 30	6524376 Mol M	led Rep	WB		
Storage	Storage: Store at -20°C. Stable for one year a Storage Buffer: PBS with 0.02% sodium azide and 5 Aliquoting is unnecessary for -20°C	50% glycerol, pH7.3			

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

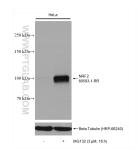
## Selected Validation Data



Untreated and MG132 treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



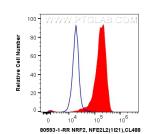
Untreated and MG132 treated HepG2 cells were subjected to SDS PAGE followed by western blot with 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



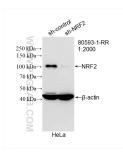
Untreated and MG132 treated HeLa cells were subjected to SDS PAGE followed by western blot with 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



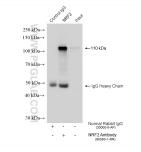
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



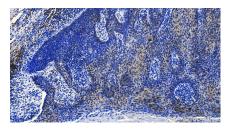
1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human NRF2, NFE2L2 (80593-1-RR, Clone:1121) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



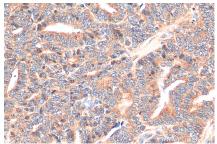
WB result of NRF2, NFE2L2 antibody (80593-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NRF2, NFE2L2 transfected HeLa cells.



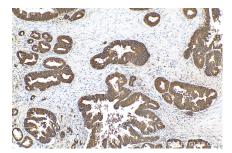
IP result of anti-NRF2, NFE2L2 (IP:80593-1-RR, 4ug; Detection:80593-1-RR 1:700) with HeLa cells lysate 1520 ug.

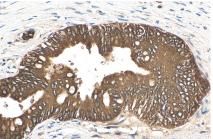


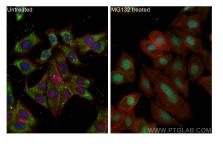
Immunohistochemical analysis of paraffinembedded Brown disease slide using 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



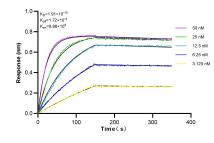
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 80593-1-RR (NRF2, NF22L2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).







Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 80593-1-RR (NRF2, NFE2L2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunofluorescent analysis of (-20°C Ethanol) fixed MG132 treated HepG2 cells using NRF2, NFE2L2 antibody (80593-1-RR, Clone: 1l21) at dilution of 1:600 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Biolayer interferometry (BLL) kinetic assays of 80593-1-RR against Human NRF2, NFE2L2 were performed. The affinity constant is 0.191 nM.