

For Research Use Only

NRF1/nuclear respiratory factor 1 Polyclonal antibody

Catalog Number: 12482-1-AP

Featured Product

91 Publications



Basic Information

Catalog Number:

12482-1-AP

Concentration:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3172

GenBank Accession Number:

BC016925

GeneID (NCBI):

4899

UNIPROT ID:

Q16656

Full Name:

nuclear respiratory factor 1

Calculated MW:

522 aa, 56 kDa

Observed MW:

67 kDa, 45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, chicken, zebrafish, goat, duck, ducks

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, human lung tissue, HEK-293T cells

IHC : human stomach tissue,

Background Information

NRF1, also named as Alpha-pal and NRF-1, belongs to the NRF1/Ewg family. It is a transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. NRF1 is implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. It plays a critical role in regulating the expression of many antioxidant response element (ARE)-dependent genes. NRF1 exists various isoforms and long isoform is about 67 kDa and short isoform is about 45 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Longlong Li	32940033	J Agric Food Chem	WB
Bin Lou	32980394	Toxicol Appl Pharmacol	WB
Kalaiselvi Sivalingam	32978730	Mol Neurobiol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

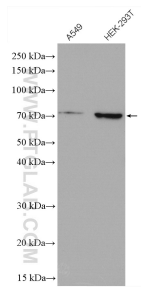
T: 4006900926

E: Proteintech-CN@ptglab.com

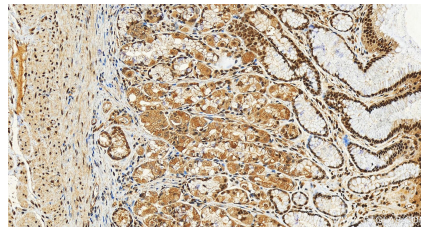
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12482-1-AP (NRF1/nuclear respiratory factor 1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 12482-1-AP (NRF1/nuclear respiratory factor 1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).