

# IHCeasy<sup>®</sup> NFE2L2/NRF2 Ready-To-Use IHC Kit

Catalog Number: KHC2502

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human, Mouse, Rat  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Rabbit Polyclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

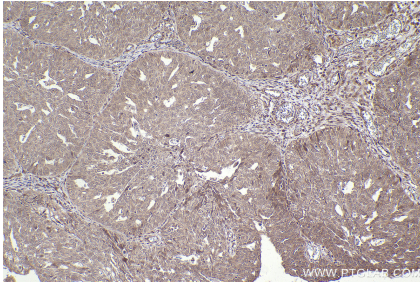
## Background

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. In lung cancer, Nrf2 activation in malignant cells has been associated with tumor progression and chemotherapy resistance. Identifying patients with abnormal NRF2 expression may be important for selection for chemotherapy in NSCLC.

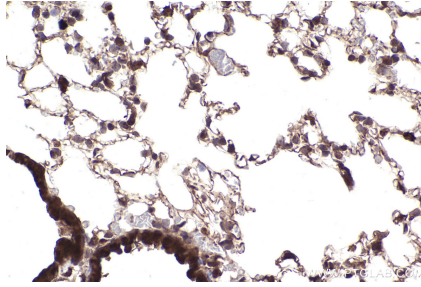
## Synonyms

NFE2L2,NRF2,HEBP1,NF-E2-related factor 2,NFE2-rela

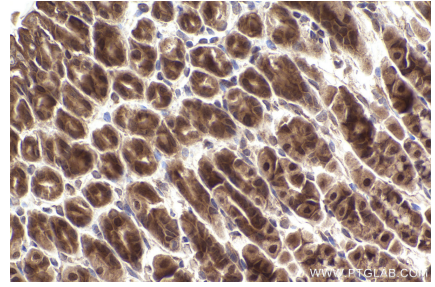
## Selected Validation Data



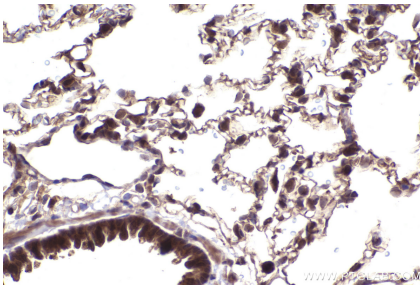
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using KHC2502 (NFE2L2/NRF2 IHC Kit).



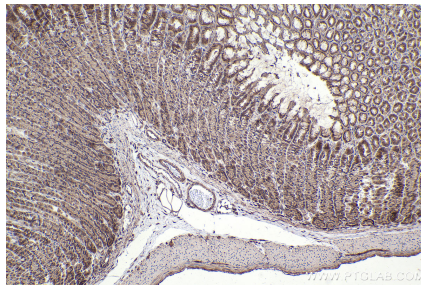
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using KHC2502 (NFE2L2/NRF2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using KHC2502 (NFE2L2/NRF2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using KHC2502 (NFE2L2/NRF2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using KHC2502 (NFE2L2/NRF2 IHC Kit).