

Anti-Phospho-NFE2L2 (Ser40) Antibody (8Z908)

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 68 kDa. Actual: 100 kDa.
Clone:	8Z908
Purification:	Protein A purified

Applications

1. HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (phospho-Nrf2 (Ser40)) monoclonal Antibody, Unconjugated (TMAB-01463) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

2. Blank control: HeLa.

Primary Antibody (green line): Rabbit Anti-phospho-Nrf2 (Ser40) antibody (TMAB-01463)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-BF488

Dilution: 0.5 µg/Test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. 25 µg total protein per Lane of various lysates probed with phospho-Nrf2 (Ser40) monoclonal antibody, unconjugated (TMAB-01463) at 1:2000 dilution and 4°C overnight incubation.

Followed by conjugated secondary antibody incubation at RT for 60 min.

4. Paraformaldehyde-fixed, paraffin embedded Human Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (TMAB-01463) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (TMAB-01463) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

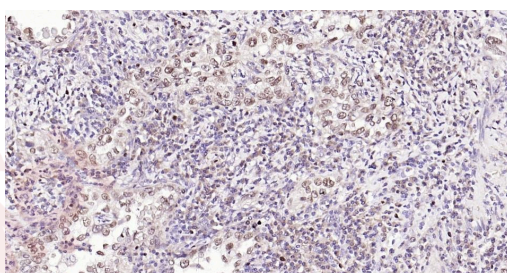
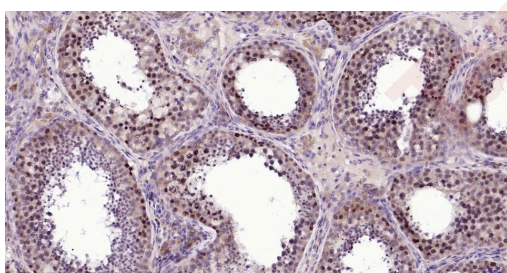
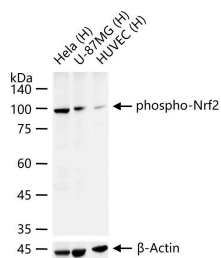
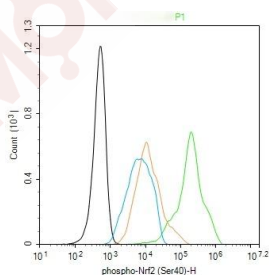
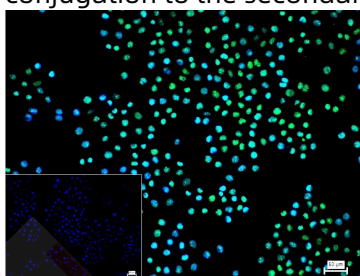
6. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (TMAB-01463) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

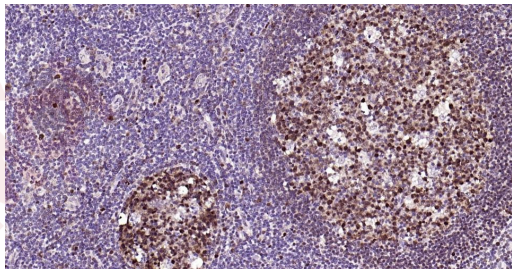
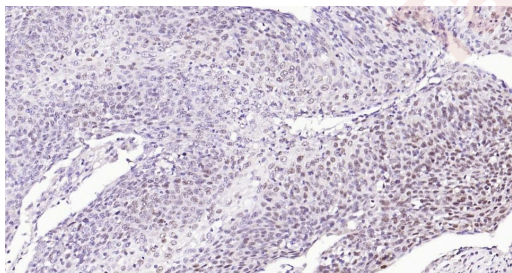
7. Paraformaldehyde-fixed, paraffin embedded Human Skin Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (TMAB-01463) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

8. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in

Verified Activity:

sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-Nrf2 (Ser40) Monoclonal Antibody, Unconjugated (TMAB-01463) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.





Application: FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended FCM=1 µg/Test; ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:1000-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized peptide: human Nrf2 around the phosphorylation site of S40
Antigen Species: Human
Gene ID: 4780
Uniprot ID: Q16236
Synonyms: NFE2L2 (p-Ser40);Phospho-NFE2L2 (S40);p-NFE2L2 (Ser40);NFE2L2 (p-S40);p-NFE2L2 (S40)
Biology Area: Cardiac metabolism,Oxidative Stress,ChIP antibodies,Other factors,Mitochondrial transcription, Mitochondrial Biogenesis,Oxidative stress

Research Background

Nuclear factor erythroid 2-related factor 2 (Nrf2) is a transcription factor which regulates the expression of many detoxification and antioxidant enzymes. Nrf2 can potentially play a significant role in adaptive responses to oxidative stress. Nrf2 belongs to the Cap N Collar (CNC-bZIP) subfamily of basic /leucine zipper (bZIP) transcription factors.

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