

Anti-NRF1 Antibody (7Y254)

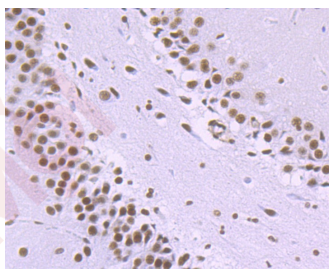
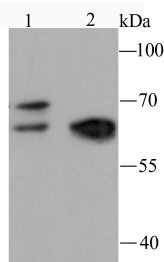
Product Details

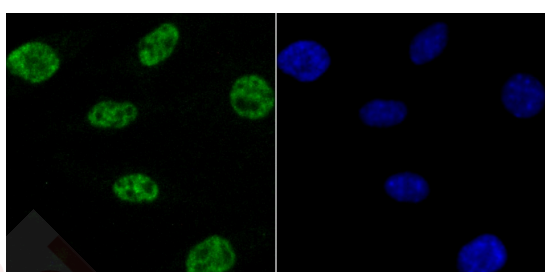
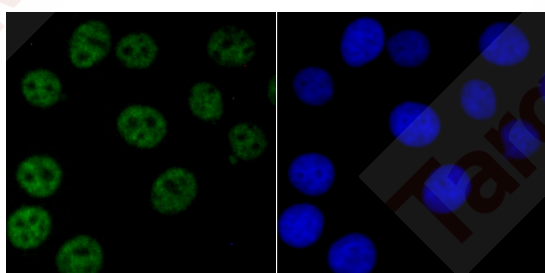
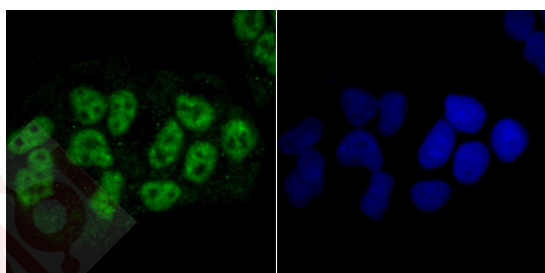
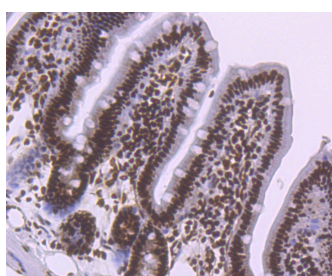
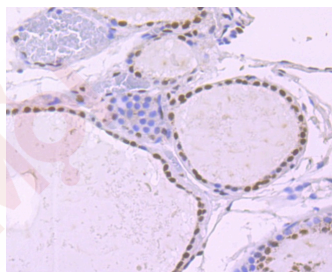
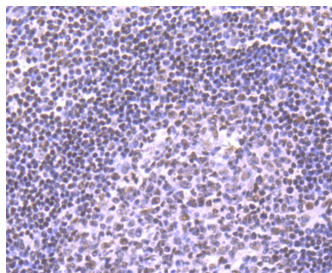
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 56 (Observed: 65) kDa.
Clone:	7Y254
Purification:	ProA affinity purified

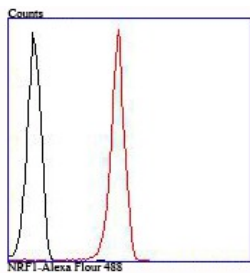
Applications

Verified Activity:

1. Western blot analysis of NRF1 on Hela cell (1) and mouse heart tissue (2) lysate using anti-NRF1 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-NRF1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-NRF1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human thyroid tissue using anti-NRF1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-NRF1 antibody. Counter stained with hematoxylin.
6. ICC staining NRF1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining NRF1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining NRF1 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. Flow cytometric analysis of 293T cells with NRF1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).







Application: FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:500; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

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: Recombinant Protein

Uniprot ID: Q16656

Synonyms: Nuclear factor erythroid derived 2 like 1;Transcription factor LCR F1;Transcription factor HBZ17; NFE2-related factor 1;erythroid derived 2;Transcription factor LCR-F1;NF2L1;TCF11;NFE2L1; Nuclear factor;Locus control region-factor 1;NRF-1;NF-E2-related factor 1;Nuclear factor erythroid 2-related factor 1;Transcription factor 11;TCF-11

Research Background

The NF-E2 DNA binding protein is composed of two subunits, p45 and MafK, and it regulates expression of globin genes in developing erythroid cells through interaction with Maf recognition elements (MAREs). A family of NF-E2 related proteins, which are collectively known as the Cap 'n' collar (CNC) family and include Nrf1 (also designated TCF11), Nrf2 and Nrf3, are bZIP transcription factors that heterodimerize with Maf proteins to bind MARE sequences. The Nrf proteins also bind the antioxidant response element (ARE) and are implicated in the regulation of detoxification enzymes and the oxidative stress response. They do so by heterodimerizing with Jun family members (c-Jun, JunB and JunD) to activate gene expression, specifically the detoxifying enzyme, NQO1. Nrf2 is widely expressed and is thought to translocate to the nucleus after treatment with xenobiotics and antioxidants, which stimulate its release from a repressor protein Keap1. Nrf3 is highly expressed in placenta, B cells and monocytes.

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