

Alexa Fluor® 488 anti-NRF2 Antibody

Catalog# / Size	939207 / 25 tests 939208 / 100 tests
Clone	W19086B
Regulatory Status	RUO
Other Names	Erythroid 2 Like 2, NF-E2-Related Factor 2, HEBP1, IMDDHH
Isotype	Rat IgG2a, κ
Description	NRF2 is a transcription factor that plays a critical role in inducing expression of genes required for oxidative stress defense and stress balance. It does so by binding to antioxidant response elements (AREs), which are located upstream of target genes. NRF2 is degraded by ubiquitination of KEAP1 E3 ligase. In a clinical setting, NRF2 is frequently activated in many types of cancers; it drives metabolic adaptation and survival in ROS-rich tumor microenvironments.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Partial recombinant human NRF2 protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Blue Laser (488 nm)
Application Notes	<p>This clone was tested for ICC on 4% PFA-fixed HeLa cells and permeabilized with either methanol or Triton X-100. Both permeabilization methods were compatible with NRF2 staining.</p> <p>Clone W19086B is validated to detect NRF2 in mouse NIH/3T3 cells using a Western blot on whole cell lysate.</p>
RRID	AB_3675199 (BioLegend Cat. No. 939207) AB_3675199 (BioLegend Cat. No. 939208)

Antigen Details

Structure NRF2 is a 605 amino acid protein with a predicted molecular weight of 67 kD.

Distribution Ubiquitously expressed/Nucleus

Function Transcription factor/Redox balance

Biology Area Cell Biology, Mitochondrial Function, Transcription Factors

Antigen References

1. M. da Costa R, *et al.* 2019. *Front In Pharm.* 10:3389.
2. Shoemaker A. 2017. *Sci Trans Med.* 9:420.
3. Robledinos-Antón N, *et al.* 2019. *Hindawi.* 10:1155.
4. Cuadrado A, *et al.* 2019. *Nat Rev Drug Discov.* 18:295-317.

Gene ID [4780](#)

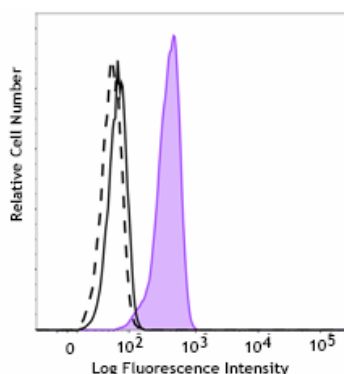
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-NRF2, PE anti-NRF2, Alexa Fluor® 647 anti-NRF2, Alexa Fluor® 488 anti-NRF2

Product Data



HeLa cells were untreated (negative control, open histogram), or treated with MG-132 (positive control, filled histogram) to induce accumulation of NRF2 by inactivation of the proteasome. The cells were fixed and permeabilized using the True-Phos™ Perm Buffer Set (Cat. No. 425401) and intracellularly stained with Alexa Fluor® 488 anti-NRF2 (clone W19086B) or Alexa Fluor® 488 rat IgG2a, κ Isotype Control (Cat. No. 400525) (open histogram, dashed line) (representative histogram for either untreated or treated cells).

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