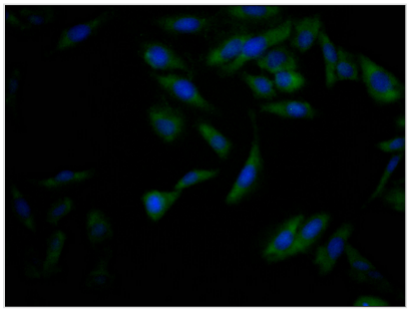
NFE2L2 Recombinant Monoclonal Antibody

Product Code	CSB-RA225569A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q16236
Immunogen	A synthesized peptide derived from human Nrf2
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:20-1:200
Relevance	Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. 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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cardiovascular; Cell biology; Metabolism
Gene Names	NFE2L2
Clone No.	2D12

Image



Immunofluorescence staining of Hela Cells with CSB-RA225569A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4?. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

The generation of the NFE2L2 recombinant monoclonal antibody involves a meticulous and well-defined process to ensure its high quality and specificity. It starts with the isolation of B cells from the spleen of an immunized animal, where the synthesized peptide derived from human Nrf2 is used as the

immunogen. RNA is extracted from the B cells and converted into cDNA through reverse transcription. The NFE2L2 antibody genes are then amplified using specific primers designed for the antibody constant regions and inserted into an expression vector. The vector is introduced into host cells via transfection, enabling the production of the NFE2L2 recombinant monoclonal antibody. After a suitable incubation period, the antibody is collected from the cell culture supernatant and subjected to meticulous purification using affinity chromatography. This ensures the isolation of a highly purified form of the NFE2L2 recombinant monoclonal antibody suitable for various applications. Rigorous characterization assays, including ELISA and IF analysis, are performed to confirm the antibody's specificity and functionality in detecting human NFE2L2 protein. The stringent production process guarantees the development of a reliable and effective NFE2L2 recombinant monoclonal antibody, which serves as a valuable tool in diverse research related to NFE2L2.