

Product datasheet

Anti-Nrf2 antibody [EP1808Y] (Allophycocyanin) ab223927

Recombinant RabMAb

1 Image

Overview

Product name	Anti-Nrf2 antibody [EP1808Y] (Allophycocyanin)
Description	Rabbit monoclonal [EP1808Y] to Nrf2 (Allophycocyanin)
Host species	Rabbit
Conjugation	Allophycocyanin. Ex: 645nm, Em: 660nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Nrf2 aa 550 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q16236
Positive control	Flow Cyt: HeLa cells.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Upon delivery aliquot. Store at +4°C. Do Not Freeze. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1808Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab223927** in the following tested applications.

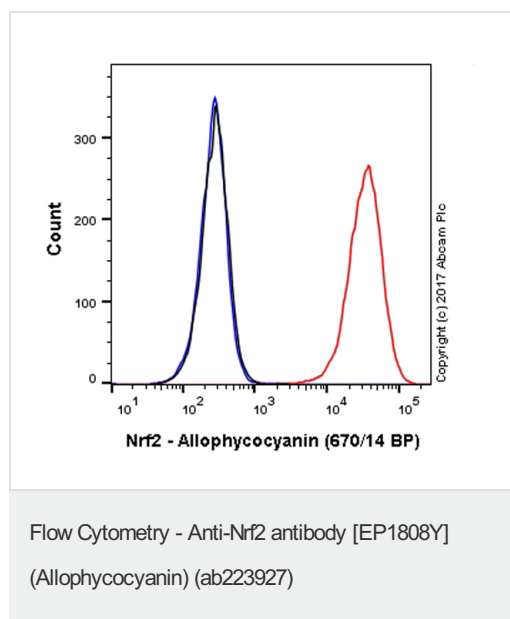
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/500. The cellular localisation of this product has been verified in ICC/IF.

Target

Function	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.
Tissue specificity	Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.
Sequence similarities	Belongs to the bZIP family. CNC subfamily. Contains 1 bZIP domain.
Domain	Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.
Post-translational modifications	Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.
Cellular localization	Cytoplasm > cytosol. Nucleus. Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents.

Images



Overlay histogram showing HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained with ab223927 (red line). The cells were fixed with 80% methanol (5 minutes) and then permeabilized with 0.1% PBS-Triton X-100 for 15 minutes. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab223927, 1/500 dilution) for 30 minutes at 22°C.

Isotype control antibody (black line) was Rabbit IgG (monoclonal) Allophycocyanin used at the same concentration and conditions as the primary antibody. Unlabeled BP sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 40 mW Red laser (640nm) and 670/14 bandpass filter.

This antibody gave a positive signal in HeLa cells fixed with 4% formaldehyde (10 minutes)/permeabilized with 0.1% PBS-Triton X-100 for 15 minutes used under the same conditions.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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