Product datasheet

Anti-Nrf2 antibody ab92946

Overview

Product name: Anti-Nrf2 antibody
Description: Rabbit polyclonal to Nrf2
Host species: Rabbit
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Mouse, Rat, Guinea pig, Hamster, Dog, Human
Predicted to work with: Cow, Pig, Orangutan

Immunogen: Synthetic peptide:
SQRRKEYELEKQKKLEKERQE
conjugated to KLH by a Cysteine residue linker, corresponding to N terminal amino acids 40-60 of Human Nrf2

Positive control: Rat liver microsomes, Mouse liver microsomes, Human liver microsomes, Canine liver microsomes and Hela cell lysate.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.09% Sodium azide
Constituents: PBS, 50% Glycerol

Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab92946 in the following tested applications.

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

All lanes: Anti-Nrf2 antibody (ab92946) at 1/1000 dilution

Lane 1: Molecular weight markers
Lane 2: Rat liver microsomes
Lane 3: Mouse liver microsomes
Lane 4: Human liver microsomes
Lane 5: Canine liver microsomes
Lane 6: HeLa cell lysate

Developed using the ECL technique.

Predicted band size: 70 kDa
Observed band size: 80 kDa

why is the actual band size different from the predicted?

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