

DESCRIPTION

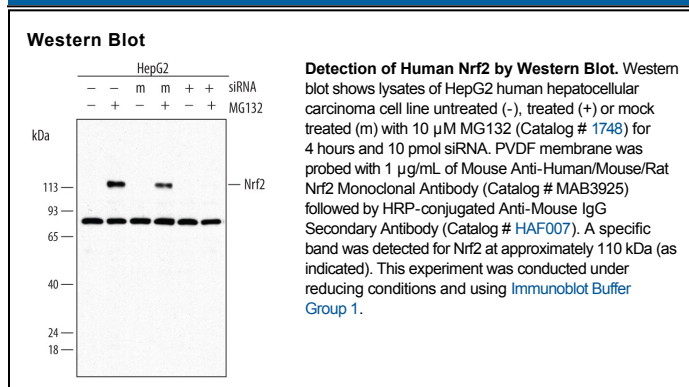
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Nrf2 in Western blots. In Western blots, no cross-reactivity with recombinant human Nrf1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 383727
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Nrf2 Met17-Asn605 Accession # Q16236
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NF-E2 related factor 2 (Nrf2) is a member of the cap 'n' collar family of basic leucine zipper transcription factors. By binding antioxidant response elements (AREs), Nrf2 activates the transcription of genes encoding antioxidant and phase II drug-metabolizing enzymes needed to protect cells against oxidative damage. Transcriptional targets regulated by Nrf2 include genes encoding glutathione S-transferases, superoxide dismutase-1, and heme oxygenase-1.