# RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG<sub>2B</sub> Clone # 383727 Catalog Number: MAB3925

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Nrf2 in Western blots. In Western blots, no cross-reactivity with mouse and rat Nrf2 and human Nrf1 is observed.		
Source	Monoclonal Mouse IgG <sub>2B</sub> 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 either lyophilized or 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
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### DATA

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Detection of Human Nrf2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line untreated (-), treated (+) or mock treated (m) with 10 µM MG132 (Catalog # 1748) for 4 hours and 10 pmol siRNA. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Nrf2 Monoclonal Antibody (Catalog # MAB3925) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Nrf2 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

#### 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.

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