

DESCRIPTION

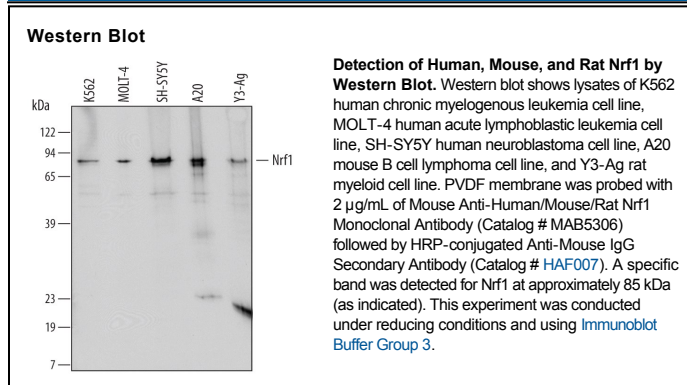
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat Nrf1 at 85 kDa in Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 492413
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Nrf1 Met1-Lys742 Accession # AAH10623
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	2 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 1 (Nrf1; also transcription factor 11 and LCR-F1) is a ubiquitously expressed transcription factor and member of the bZIP family and the CNC subfamily. Human Nrf1 is 772 amino acids (aa) in length. Like other members of the bZIP family, Nrf1 contains heptad repeats of leucine and hydrophobic residues within a putative amphipathic helical domain of 40 aa and is preceded by a 30 aa domain rich in arginine and lysine residues. A splicing variant produces two isoforms for Nrf1. Isoform 2 has a 30 aa deletion corresponding to aa 242-271 in isoform 1. Human Nrf1 is 96% and 93% identical to bovine and mouse Nrf1, respectively.