

DESCRIPTION

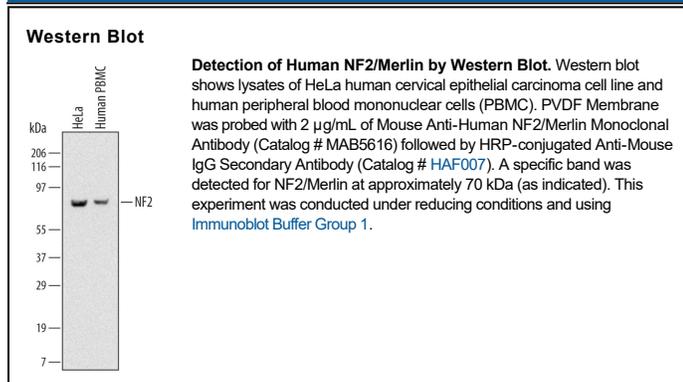
Species Reactivity	Human
Specificity	Detects human NF2/Merlin in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human NF1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 534428
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human NF2/Merlin Met363-Lys578 Accession # P35240
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	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

NF2 (Neurofibromin-2; also Merlin) is a 70-75 kDa tumor suppressor protein belonging to the ERM (ezrin, radixin, moesin) family of proteins. It participates in contact-mediated cell adhesion, thereby blocking cell proliferation and migration. Human NF2 is 595 amino acids (aa) in length. It contains three general regions. There is an N-terminal FERM domain (aa 1-302), an α-helical rod central region (aa 303-478), and a unique carboxy-terminal domain (aa 479-595). Confluence requires an absence of phosphorylation at Ser516 and Ser10. There are multiple potential splice variants. Four short forms less than 260 aa in length lack the aa range used for antigen immunization. There are at least eight additional isoforms that basically show an alternate start site coupled to an 11 aa substitution for aa 579-595. Lack of NF2 is associated with neurofibromatosis type II.