

DESCRIPTION

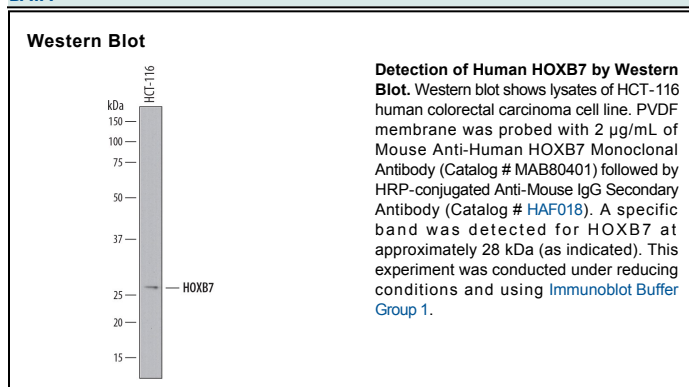
Species Reactivity	Human
Specificity	Detects human HOXB7 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human HOXA7 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 864617
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HOXB7 Ser2-Asn123 Accession # P09629
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	Sterile PBS to a final concentration of 0.5 mg/mL.
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

HOXB7 (Homeobox protein B7), also called Hox-2C, is a 24 kDa (predicted) member of the Antp homeobox family of transcription factors. It is widely expressed, and is overexpressed in many cancers such as melanoma and tumors in lung and breast. It promotes tumorigenesis by promoting activities such as proliferation, invasion, epithelial-mesenchymal transition and angiogenesis. Human HOXB7 is a 217 amino acid (aa) protein with an Antp-type hexapeptide (aa 126-131) that mediates heterodimerization, and a DNA-binding homeobox domain (aa 137-196). Human HOXB7 aa 1-123 shares 92% aa sequence identity with mouse and rat HOXB7.