

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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