

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HOXB7 in ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 864614
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HOXB7 Met1-Asn123 Accession # P09629
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Immunocytochemistry 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.

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