

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HOXA1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human (rh) HOXB1, rhHOXB4, and rhHOXA9 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HOXA1 Met1-Asp118 Accession # P49639
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.
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

HOXA1 (Homeobox A1; also Hox-1F) is a 35 kDa member of the Antp homeobox family of transcription factors. It is expressed in epithelium and is upregulated by E-cadherin signaling, whereupon it suppresses apoptosis and promotes anchorage dependent growth. Human HOXA1 is 335 amino acids (aa) in length. It contains two poly-His sequences (aa 65-74 and 142-146), a PBX binding segment (aa 204-209) and a DNA binding homeobox domain (aa 229-288). There are multiple splice variants. There is a potential alternate start site at Met6 that may be paired with a nine aa substitution for the C-terminal 117 aa, or a 19 aa substitution for the C-terminal 217 amino acids. Over aa 1-118, human HOXA1 shares 92% and 90% aa identity with mouse and canine HOXA1, respectively.

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