

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human HOXA1 Met1-Asp118 Accession # P49639
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	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.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunocytochemistry</b>	Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	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.

## PRODUCT SPECIFIC NOTICES

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