

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HOXB1 in direct ELISAs. In direct ELISAs, less than 2% cross-reactivity with recombinant human (rh) HOXA1, rhHOXB4, and rhHOXA9 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HOXB1 Met1-Thr192 Accession # P14653
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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

HOXB1 (Homeobox protein B1; also HOX-2l) is a 32 kDa (predicted) member of the Antp homeobox family, labial subfamily of transcription factors. It is expressed in rhombomere-4 (r-4) of the hindbrain, where it drives the development of r-4 derived structures. Among these are the motor neurons of the facial nerve, and neural crest cells that form Schwann cells plus cartilage and bone of the neck and ear. Human HOXB1 is 301 amino acids (aa) in length. It contains an Antp-type hexapeptide (aa 179-184) that mediates heterodimerization, and a DNA-binding homeobox domain (aa 203-262). There is one potential splice variant that shows a 40 aa substitution for aa 193-301. Over aa 1-192, human HOXB1 shares 82% aa identity with mouse HOXB1.

PRODUCT SPECIFIC NOTICES

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