

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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.