bs-17363R

[Primary Antibody]

HOXB1 Rabbit pAb

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DATASHEET

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 3211 Target: HOXB1

Immunogen: KLH conjugated synthetic peptide derived from human HOXB1:

221-301/301.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

Background: HOX genes play a fundamental role in the development of the vertebrate central nervous system, heart, axial skeleton, limbs, gut, urogenital tract and external genitalia. The homeobox gene Hoxb-1 is critical to hindbrain development and has phenotypic features frequently observed in autism. Analysis of expression and targeted disruption of Hoxb-1 demonstrates that it is also essential for patterning progenitor cells along the entire DV axis of rhombomere 4 (r4). Hoxb-1 maintains this function by acting very early during hindbrain neurogenesis to specify effectors of the sonic hedgehog and Mash1 signaling pathways. Hoxb2 is a homeodomain protein important in neural development that is also expressed during erythropoiesis, hindbrain development and normal human adult lung development. Hoxb2 may modulate the amount of gammaglobin mRNA expressed during development and differentiation. In addition, Hoxb2 plays an important role in the patterning of hindbrain and pharyngeal arches in the zebrafish.

Applications: WB (1:500-2000)

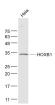
Reactivity: Human (predicted: Mouse,

Rabbit, Pig)

Predicted 32 kDa MW.:

Subcellular Location: Nucleus

- VALIDATION IMAGES -



Sample: Hela(Human) Cell Lysate at 30 ug Primary: Anti- HOXB1 (bs-17363R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 32 kD Observed band size: 32 kD