

## Product Datasheet

# HOXB9 Antibody

Catalog No: CY5467

Reactivity: Human

Isotype: Rabbit IgG

Applications: WB ICC IP



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### Information

**UniProt ID:** P17482

**All Names:** Homeobox protein Hox-B9; Hox-2E; Hox-2.5; HOXB9; HOX2E;

**Form:** Liquid

**Storage instructions:** Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Purity:** Affinity-chromatography

**Immunogen:** A synthesized peptide

**Molecular Wt.:** 28 kDa

### Application

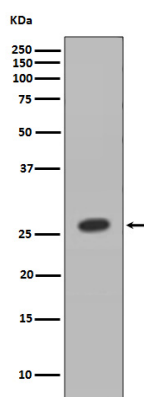
WB: 1:500~1:2000

ICC: 1:50~1:100

IP: 1:50

### Background

The Hox proteins play a role in development and cellular differentiation by regulating downstream target genes. Specifically, the Hox proteins direct DNA-protein and protein-protein interactions that assist in determining the morphologic features associated with the anterior-posterior body axis. The mammalian Hox gene complex consists of 39 genes that are located on four linkage groups, which are dispersed over four chromosomes. Hox genes that occupy the same relative position along the 5' to 3' coordinate (trans-paralogous genes) are more similar in sequence and expression pattern than adjacent Hox genes on the same chromosome. In mice, the HoxB cluster contains HoxB1 to HoxB9 and HoxB13, which are transcribed in the same direction. HoxB9 associates with the transcriptional cofactors BTG1 and BTG2, which enhance HoxB9 transcription. Alterations in HoxB9 expression, as with other Hox family member, has been implicated in leukemia.



Western blot analysis of HOXB9 expression in MCF7 cell lysate.

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