

For Research Use Only

# HOXB9 Polyclonal antibody, PBS Only

Catalog Number: 18894-1-PBS



## Basic Information

**Catalog Number:**

18894-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG13502

**GenBank Accession Number:**

BC015565

**GeneID (NCBI):**

3219

**UNIPROT ID:**

P17482

**Full Name:**

homeobox B9

**Calculated MW:**

250 aa, 28 kDa

**Observed MW:**

30-32 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

HOXB9 is a member of the Homeobox (HOX) gene family, which plays a crucial role in embryonic development and is involved in the regulation of gene expression during this process. In addition to its role in embryogenesis, HOXB9 has been implicated in various cancers, including breast and prostate cancer. It is overexpressed in breast cancer tissue and is regulated by estrogen, playing a critical role in angiogenesis. HOXB9 overexpression has been shown to stimulate three-dimensional colony formation in soft-agar assays, indicating its role in tumorigenesis. Furthermore, HOXB9 binds to the promoters of various tumor growth and angiogenic factors, regulating their expression, and its homeodomain plays a crucial role in transcriptional regulation and tumorigenesis.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

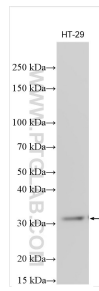
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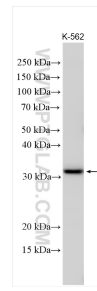
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18894-1-AP (HOXB9 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 18894-1-PBS in a different storage buffer formulation.



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