

For Research Use Only

HOXB9 Recombinant antibody, PBS Only

Catalog Number: 84609-3-PBS



Basic Information

Catalog Number: 84609-3-PBS	GenBank Accession Number: BC015565	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3219	CloneNo.: 241866C6
Source: Rabbit	UNIPROT ID: P17482	
Isotype: IgG	Full Name: homeobox B9	
Immunogen Catalog Number: AG34837	Calculated MW: 250 aa, 28 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

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

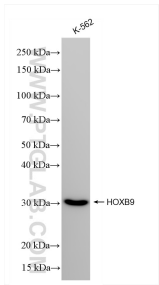
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

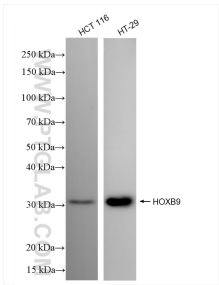
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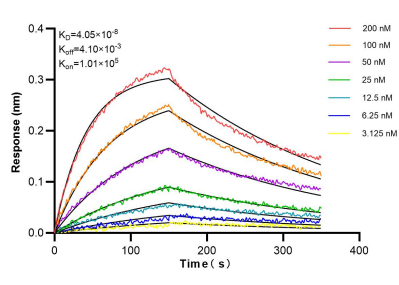
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 84609-3-RR (HOXB9 antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84609-3-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 84609-3-RR (HOXB9 antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84609-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84609-3-RR against Human HOXB9 were performed. The affinity constant is 40.5 nM.