



Rabbit Anti-HOXB5 antibody

SL6668R

Product Name:	HOXB5
Chinese Name:	同源盒蛋白HOXB5抗体
Alias:	Homeo box 2A; Homeo box B5; Homeobox 2A; Homeobox B5; Homeobox protein HHO.C10; Homeobox protein Hox B5; Homeobox protein Hox-2A; Homeobox protein Hox-B5; Homeobox protein HoxB5; Homeobox protein Hu-1; Homeobox2A; HomeoboxB5; HOX 2; Hox 2.1; HOX 2A; HOX B5; HOX2; Hox2.1; HOX2A; HOXB 5; Hoxb5; HU 1; HU1; HXB5 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-F=1:400-800Flow-Cyt=1ug/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	31kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HOXB5:181-269/269
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene is a member of the Antp homeobox family and encodes a nuclear protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded protein functions as a sequence-specific

transcription factor that is involved in lung and gut development. Increased expression of this gene is associated with a distinct biologic subset of acute myeloid leukemia (AML) and the occurrence of bronchopulmonary sequestration (BPS) and congenital cystic adenomatoid malformation (CCAM) tissue. [provided by RefSeq, Jul 2008].

Function:

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.

Subcellular Location:

Nucleus.

Tissue Specificity:

Spinal cord.

Similarity:

Belongs to the Antp homeobox family.
Contains 1 homeobox DNA-binding domain.

SWISS:

P09067

Gene ID:

3215

Database links:

[Entrez Gene: 3215](#)Human

[Entrez Gene: 15413](#)Mouse

[Entrez Gene: 497987](#)Rat

[Omim: 142960](#)Human

[SwissProt: P09067](#)Human

[SwissProt: P09079](#)Mouse

[Unigene: 654456](#)Human

[Unigene: 207](#)Mouse

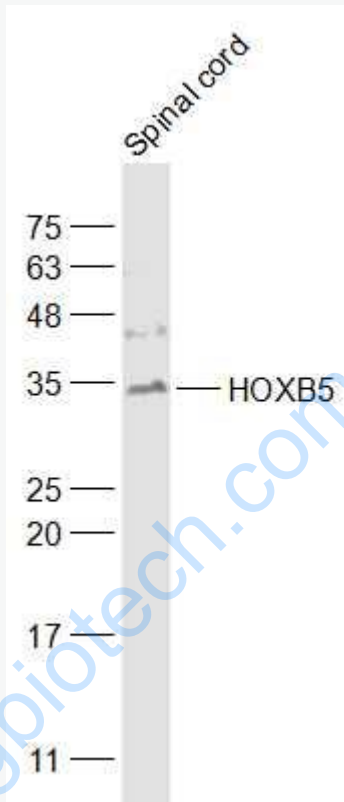
[Unigene: 229521](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



Sample:

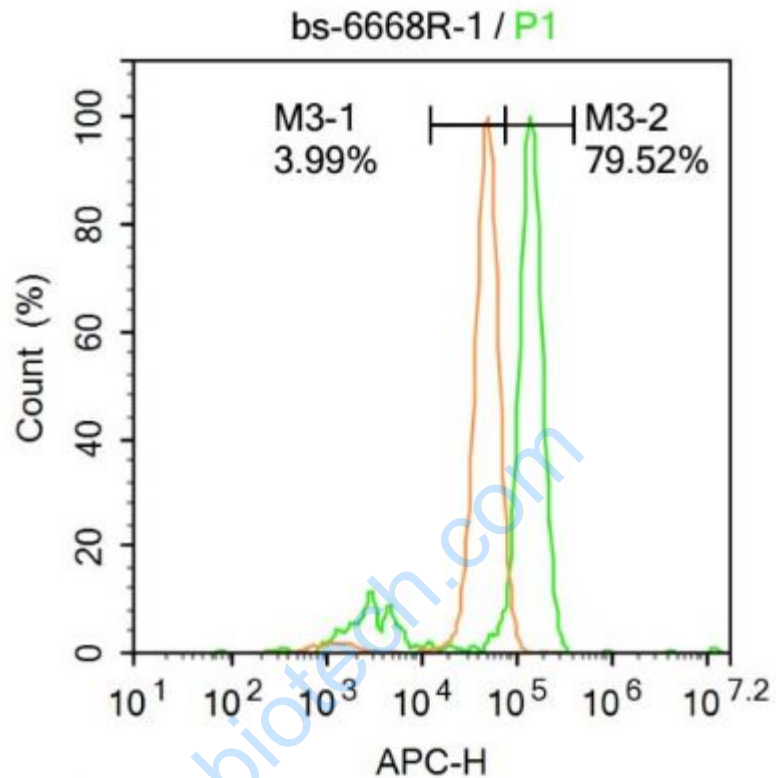
Spinal cord (Mouse) Lysate at 40 ug

Primary: Anti-HOXB5? (SL6668R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kD

Observed band size: 31 kD



Blank control: Hela.

Primary Antibody (green line): Rabbit Anti-HOXB5 antibody (SL6668R)

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at -20°C . Cells stained with Primary Antibody for 30 min at

room temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.

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