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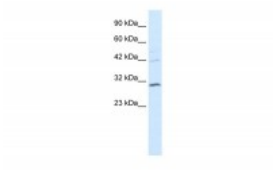
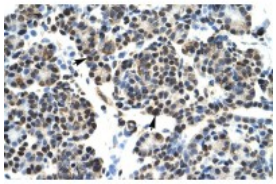
HOXB5 Antibody

CATALOG NUMBER: 27-348



Antibody used in WB on Human Jurkat 0.2-1 ug/ml.



Antibody used in IHC on Human Pancreas lysate.

Specifications

SPECIES REACTIVITY:	Dog, Human, Mouse, Rat
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	HOXB5 antibody can be used for detection of HOXB5 by ELISA at 1:62500. HOXB5 antibody can be used for detection of HOXB5 by western blot at 0.5 ug/mL, and HRP conjugated secondary antibody should be diluted 1:50,000 - 100,000.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1211 - HepG2 Cell Lysate
PREDICTED MOLECULAR WEIGHT:	30 kDa
IMMUNOGEN:	Antibody produced in rabbits immunized with a synthetic peptide corresponding a region of human HOXB5.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Antibody is purified by peptide affinity chromatography method.
PHYSICAL STATE:	Lyophilized
BUFFER:	Antibody is lyophilized in PBS buffer with 2% sucrose. Add 50 uL of distilled water. Final antibody concentration is 1 mg/mL.
CONCENTRATION:	1 mg/ml
STORAGE CONDITIONS:	For short periods of storage (days) store at 4˚C. For longer periods of storage, store HOXB5 antibody at -20˚C. As with any antibody avoid repeat freeze-thaw cycles.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	HOXB5, HHO.C10, HOX2, HOX2A, HU-1, Hox2.1
ACCESSION NO.:	NP_002138
PROTEIN GI NO.:	4504469

OFFICIAL SYMBOL:	HOXB5
GENE ID:	3215

Background

BACKGROUND:	HOXB5 belongs to the homeobox family. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXB genes located in a cluster on chromosome 17. The exact role of this gene has yet to be determined.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.
REFERENCES:	1) Fu, M., (2003) Dev. Dyn. 228 (1), 1-10.

FOR RESEARCH USE ONLY

December 12, 2016