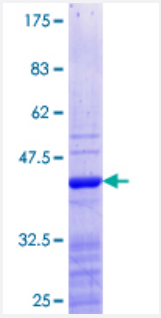
HOXB5 (Human) Recombinant Protein (Q01)

Catalog # H00003215-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HOXB5 partial ORF (NP_002138.1, 170 a.a. - 267 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	EGQTPQIFPWMRKLHISHDMTGPDGKRARTAYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLSER QIKIWFQNRRMKWKKDNKLKSMSLATAGSAF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HOXB5

Entrez GeneID	3215
GeneBank Accession#	NM_002147
Protein Accession#	NP_002138.1
Gene Name	HOXB5
Gene Alias	HHO.C10, HOX2, HOX2A, HU-1, Hox2.1
Gene Description	homeobox B5
Omim ID	142960
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the Antp homeobox family and encodes a nuclear protein with a homeo box DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosom e 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
Other Designations	homeo box 2A|homeo box B5

Publication Reference

- Homeobox b5 (Hoxb5) regulates the expression of Forkhead box D3 gene (Foxd3) in neural crest.

  Kam MK, Cheung M, Zhu JJ, Cheng WW, Sat EW, Tam PK, Lui VC.

  The International Journal of Biochemistry & Cell Biology 2014 Oct; 55:144.

  Application: Electro-mobility shift assay, DNA

- HOXB5 Cooperates with NKX2-1 in the Transcription of Human RET.

  Zhu J, Garcia-Barcelo MM, Tam PK, Lui VC.

  PLoS One 2011 Jun; 6(6):e20815.

  Application: EMSA, Human, SK-N-SH cells