Datasheet for ABIN7319405

HOXB4 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	HOXB4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HOXB4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human HOXB4 Protein (His Tag)
Sequence:	Met1-Leu251
Characteristics:	Recombinant Human Homeobox protein B4 is produced by our E.coli expression system and the target gene encoding Met1-Leu251 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	HOXB4
Alternative Name:	HOXB4 (HOXB4 Products)
Background:	Background: Homeobox B4 (HOXB4) is encoded by the HOXB4 gene which is a member of the the class I homeobox (HOX) gene family and encodes a nuclear protein with a homeobox DNA-binding domain. These genes are master control regulators of developmental programs

Target Details

	including embryonic and adult hematopoiesis. Multiple HOX genes, including HOXB4, are highly expressed in the hematopoietic stem cells (HSC) compartment. HOXB4 gene can act in opposite ways when expressed by different cells, promoting the proliferation of stem cells whilst activating the apoptotic pathway in some embryonic structures. The protein HOXB4, as a homeodomain transcription factor, has been shown to be an important regulator of stem cell renewal and hematopoiesis. Incellular or ectopic expression of HOXB4 expands hematopoietic stem and progenitor cells in vivo and in vitro, making it a potential candidate for therapeutic stem cell expansion. Synonym: Homeobox protein Hox-B4, Homeobox protein Hox-2.6, Homeobox protein Hox-2F, HOXB4, HOX2F
Molecular Weight:	29.8 kDa
UniProt:	P17483

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 4 mM HCl.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.