Datasheet for ABIN1344335

HES1 Protein (AA 2-280) (His tag)

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Overview

Quantity:	10 µg
Target:	HES1
Protein Characteristics:	AA 2-280
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HES1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	HES1 (human) (rec.) (His)
Cross-Reactivity:	Human
Characteristics:	Human HES1 (aa 2-280) is fused at the N-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	Sterile filtered

Target Details

Target:	HES1
Alternative Name:	HES1 (HES1 Products)
Background:	Hairy and Enhancer of Split 1, Transcription Factor HES-1, Class B Basic Helix-loop-helix Protein

Target Details

	39, bHLHb39, Hairy Homolog, Hairy-like Protein, HRY, hHL bHLH proteins are essential for neurogenesis, myogenesis, hematopoiesis and sex determination. HES1 (Hairy and Enhancer of Split 1) is a basic Helix-Loop-Helix (bHLH) transcriptional repressor regulated by the Notch pathway and expressed in various tissues. HES1 is well known in development of different tissues, particularly endoderm derived endocrine organs like pancreas and neuroendocrine cells of lung. HES1 controls normal development by regulating proliferation and differentiation and so cell fate. Notch signaling plays both oncogenic and tumor suppressor roles depending on cell type. In contrast to T cell acute lymphoblastic leukemia (ALL), where Notch activation promotes leukemogenesis, induction of Notch signaling in B cell ALL (B-ALL) leads to growth arrest and apoptosis. The Notch target HES1 is sufficient to reproduce this tumor suppressor phenotype in B-ALL by interacting and activating PARP-1 and regulating proapoptotic signals.
Molecular Weight:	~35kDa (SDS-PAGE)
UniProt:	Q14469
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	0.2µm-filtered solution in 55 mM TRIS-Cl, pH 8.2, containing 150 mM NaCl.
Handling Advice:	After opening, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Expiry Date:	6 months