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Datasheet for ABIN1344335
HES1 Protein (AA 2-280) (His tag)

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

Cross-Reactivity:	Human
Characteristics:	Human HES1 (aa 2-280) is fused at the N-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	0.2 µm filtered

Target Details

Target:	HES1
Alternative Name:	HES1 (HES1 Products)
Background:	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)

Target Details

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

Concentration: Lot specific

Buffer: 0.2µm-filtered solution in 55 mM TRIS-Cl, pH 8.2, containing 150 mM NaCl.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C
Long Term Storage: -20°C
Working aliquots are stable for up to 3 months when stored at -20°C.

Expiry Date: 3 months