abcam

Product datasheet

Recombinant Human HES7 protein (denatured) ab137139

1 Image

Description

Product name	Recombinant Human HES7 protein (denatured)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMVTRDRAENRDGPK MLKPLVEKRRRDR INRSLEELRLLLLERTRDQNLRNPKLEKAEILEFAVGYLRER SRVEPPAA AAPGVPRSPVQDAEALASCYLSGFRECLLRLAAFAHDAS PAARAQLFSAL HGYLRPKPPRPKPVDPRPPAPRPSLDPAAPALGPALHQR PPVHQGHPSPR CAWSPSLCSPRAGDSGAPAPLTGLLPPPPPPHRQDGAP KAPLPPPPAFWR PWP
Predicted molecular weight	27 kDa including tags
Amino acids	1 to 230
Tags	His tag N-Terminus
Description	Recombinant Human HES7 protein

Specifications

Our **Abpromise guarantee** covers the use of **ab137139** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00
Constituents: 2.4% Urea, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)

General Info

Function

Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation.

Involvement in disease

Defects in HES7 are the cause of spondylocostal dysostosis type 4 (SCDO4) [MIM:613686]. A rare condition of variable severity characterized by vertebral and costal anomalies. The main feature include dwarfism, vertebral fusion, hemivertebrae, posterior rib fusion, reduced rib number, and other rib malformations.

Sequence similarities

Contains 1 basic helix-loop-helix (bHLH) domain.
Contains 1 Orange domain.

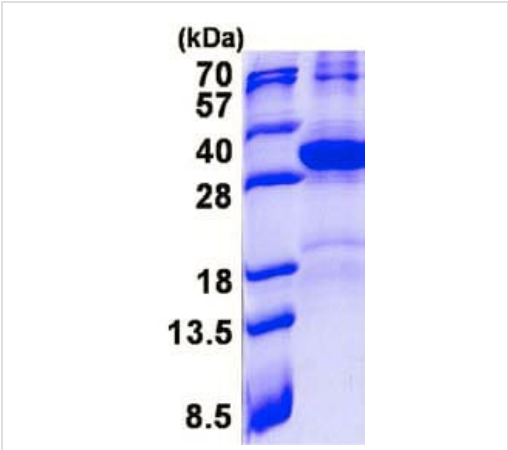
Domain

Has a particular type of basic domain which includes a helix-interrupting proline.
The C-terminal WRPW motif is a transcriptional repression motif which is necessary for interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.

Cellular localization

Nucleus.

Images



SDS-PAGE - Recombinant Human HES7 protein (denatured) (ab137139)

15% SDS-PAGE analysis of 3 µg ab137139.

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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