

Recombinant Mouse Grhl3 Protein, Myc/DDK-tagged

Cat. No. Grhl3-3306M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length grainyhead like transcription factor 3 (Grhl3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Transcription factor playing important roles in primary neurulation and in the differentiation of stratified epithelia of both ectodermal and endodermal origin. Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' acting as an activator and repressor on distinct target genes. Essential for epidermal differentiation and barrier formation at the end of embryogenesis with TGM3 as critical direct target. Exhibits functional redundancy with GRHL2 in epidermal morphogenetic events such as eyelid fusion and epidermal wound repair. Despite being dispensable during normal epidermal homeostasis in the adulthood, is again required for barrier repair after immune-mediated epidermal damage, regulates distinct gene batteries in embryonic epidermal differentiation and adult epidermal barrier reformation after injury. Plays unique and cooperative roles with GRHL2 in establishing distinct zones of primary neurulation. Essential for spinal closure, functions cooperatively with GRHL2 in closure 2 (forebrain/midbrain boundary) and posterior neuropore closure. Also required for proper development of the oral periderm. No genetic interaction with GRHL1, no functional cooperativity due to diverse target gene selectivity.
Molecular Mass	67.8 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Grhl3 grainyhead like transcription factor 3 [Mus musculus (house mouse)]
Official Symbol	Grhl3
Synonyms	GRHL3; grainyhead-like 3 (Drosophila); grainyhead-like protein 3 homolog; grainy head-like 3; transcription factor hSOM1; sister-of-mammalian grainyhead; transcription factor CP2-like 4; ct; Som; Get1; Tfcp2l4; AI561912; MGC102260
Gene ID	230824
mRNA Refseq	NM_001013756
Protein Refseq	NP_001013778
UniProt ID	Q5FWH3

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