

GRHL3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16526b**Specification**

GRHL3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8TE85](#)**GRHL3 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 57822

Other Names

Grainyhead-like protein 3 homolog, Sister of mammalian grainyhead, Transcription factor CP2-like 4, GRHL3, SOM, TFCEP2L4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GRHL3 Antibody (N-term) Blocking Peptide - Protein InformationName GRHL3 ([HGNC:25839](#))**Function**

Transcription factor playing important roles in primary neurulation and in the differentiation of stratified epithelia of both ectodermal and endodermal origin (By similarity). Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' acting as an activator and repressor on distinct target genes (PubMed:21081122, PubMed:25347468). Exhibits functional redundancy with GRHL2 in epidermal morphogenetic events and epidermal wound repair (By similarity). Exhibits functional redundancy with GRHL2 in epidermal morphogenetic events and epidermal wound repair but is essential to form the epidermal barrier with TGM3 as critical direct target gene among others. 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 (By similarity). Also required for proper development of the oral periderm (PubMed:24360809). No genetic interaction with GRHL3, no functional cooperativity

due to diverse target gene selectivity (PubMed:21081122).

Cellular Location

Nucleus.

Tissue Location

Expressed in brain, colon, pancreas, placenta and kidney. Isoform 1 is expressed in lung and tonsil. Isoform 2 is prostate-specific.

GRHL3 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

GRHL3 Antibody (N-term) Blocking Peptide - Images**GRHL3 Antibody (N-term) Blocking Peptide - Background**

This gene encodes a member of the grainyhead family of transcription factors. The encoded protein may function as a transcription factor during development, and has been shown to stimulate migration of endothelial cells. Multiple transcript variants encoding distinct isoforms have been identified for this gene.

GRHL3 Antibody (N-term) Blocking Peptide - References

Guardiola-Serrano, F., et al. Biochem. Biophys. Res. Commun. 376(4):748-752(2008) Ting, S.B., et al. Biochem. J. 370 (PT 3), 953-962 (2003) :