

GRHL3 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI11561

Product Information

Application	WB, IHC
Primary Accession	Q8TE85
Other Accession	NM_021180 , NP_067003
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70345

Additional Information

Gene ID	57822
Alias Symbol	SOM, TFCP2L4
Other Names	Grainyhead-like protein 3 homolog, Sister of mammalian grainyhead, Transcription factor CP2-like 4, GRHL3, SOM, TFCP2L4
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-GRHL3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	GRHL3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	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.

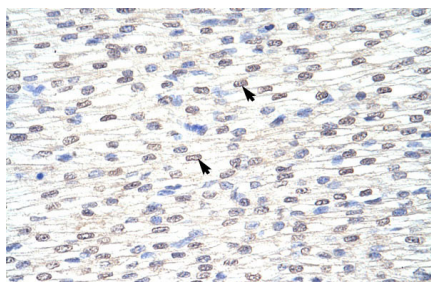
Tissue Location

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

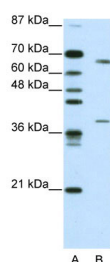
References

Ting,S.B., Biochem. J. 370 (PT 3), 953-962 (2003)Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



Human Heart



WB Suggested Antibody Titration: 0.2-1 µg/ml
Positive Control: Jurkat

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.