10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-GATA6(Y271) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3536a

Product Information

Application	WB, DB, E
Primary Accession	Q92908
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15307
Calculated MW	60033

Additional Information

Gene ID	2627
Other Names	Transcription factor GATA-6, GATA-binding factor 6, GATA6
Target/Specificity	This GATA6 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y271 of human GATA6.
Dilution	WB~~1:1000 DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-GATA6(Y271) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GATA6
Function	Transcriptional activator (PubMed: 19666519, PubMed:22750565, PubMed:22824924, PubMed:27756709). Regulates SEMA3C and PLXNA2 (PubMed:19666519). Involved in gene regulation specifically in the gastric epithelium (PubMed:9315713). May regulate genes that protect epithelial cells from bacterial infection (PubMed:16968778). Involved in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression (By similarity). Binds

	to BMP response element (BMPRE) DNA sequences within cardiac activating regions (By similarity). In human skin, controls several physiological processes contributing to homeostasis of the upper pilosebaceous unit. Triggers ductal and sebaceous differentiation as well as limits cell proliferation and lipid production to prevent hyperseborrhoea. Mediates the effects of retinoic acid on sebocyte proliferation, differentiation and lipid production. Also contributes to immune regulation of sebocytes and antimicrobial responses by modulating the expression of anti- inflammatory genes such as IL10 and pro-inflammatory genes such as IL6, TLR2, TLR4, and IFNG. Activates TGFB1 signaling which controls the interfollicular epidermis fate (PubMed:33082341).
Cellular Location	Nucleus
Tissue Location	Expressed in heart, gut and gut-derived tissues. Expressed in skin upper pilosebaceous unit. Expression is decreased or lost in acne lesions (PubMed:33082341).

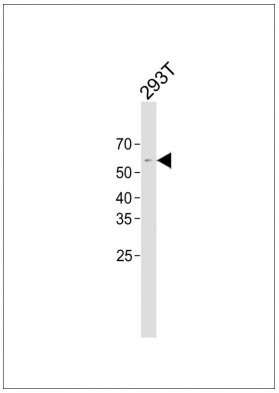
Background

GATA6 may be important for regulating terminal differentiation and/or proliferation.

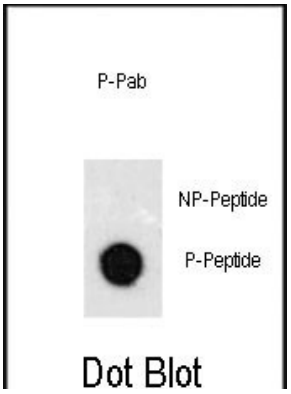
References

Kwei,K.A., PLoS Genet. 4 (5), E1000081 (2008)
Ghatnekar,A., Biochim. Biophys. Acta 1779 (3), 145-151 (2008)

Images



All lanes: Anti-GATA6(Y271) Antibody at 1:250 dilution + 293T whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 60 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Dot blot analysis of anti-Phospho-GATA6-pY271 Phospho-specific Pab (RB15308) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.