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

GATA6 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52675

Product Information

Application	WB
Primary Accession	Q92908
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	60033

Additional Information

Gene ID	2627
Other Names	Gata binding factor 6;Gata binding protein 6;GATA-binding factor 6;Gata6;GATA6_HUMAN; Transcription factor Gata 6;Transcription factor GATA-6.
Dilution	WB~~1:200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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).

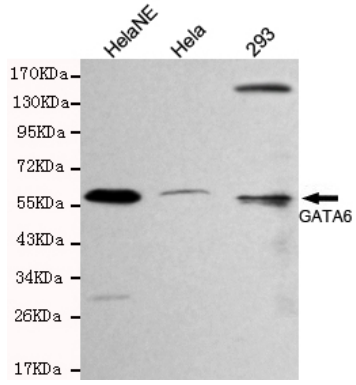
Background

Transcriptional activator that regulates SEMA3C and PLXNA2. Thought to be important for regulating terminal differentiation and/or proliferation. Involved in gene regulation specifically in the gastric epithelium. Involved in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression. Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions (By similarity).

References

Suzuki E.,et al.Genomics 38:283-290(1996).
Huggon I.C.,et al.Biochim. Biophys. Acta 1353:98-102(1997).
Yoshida T.,et al.FEBS Lett. 414:333-337(1997).
Nusbaum C.,et al.Nature 437:551-555(2005).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of GATA6 in HelaNE,Hela and 293 cell lysates and using GATA6 mouse mAb (1:200 diluted).Predicted band size: 45KDa.Observed band size: 60KDa.

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