GATA6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GATA6, Polyclonal Antibody
Full Product Name	GATA6, Phosphorylated (Y271) (GATA6, Transcription factor GATA-6, GATA-binding factor 6) (MaxLight 750)
Product Gene Name	anti-GATA6 antibody
Product Synonym Names	GATA6; Transcription factor GATA-6; GATA-binding factor 6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	60,033 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (19749404..19782491). Location: 18q11.1-q11.2
OMIM	187500
3D Structure	ModBase 3D Structure for Q92908
Immunogen	Phospho-GATA6-Y271 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide surrounding Y271 of human GATA6.
Conjugate	MaxLight750
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-GATA6 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-GATA6 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-GATA6 antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-GATA6 antibody	Thought to be important for regulating terminal differentiation and/or proliferation.
Product References and Citations for anti-GATA6 antibody	Artus, J., et al. Development 137(20):3361-3372(2010). Lin, X., et al. J. Hum. Genet. 55(10):662-667(2010). Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Thye, T., et al. Nat. Genet. 42(9):739-741(2010). Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010).

Other Notes	Small volumes of anti-GATA6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GATA6 purchase	MBS6301344 is an antibody targeting GATA6. Also known as GATA6, Phosphorylated (Y271) (GATA6, Transcription factor GATA-6, GATA-binding factor 6) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GATA6. It may not necessarily be applicable to this product.

NCBI GI #	40288197
NCBI GeneID	2627
NCBI Accession #	NP_005248.2
UniProt Primary Accession #	Q92908
UniProt Secondary Accession #	P78327; B0YJ17
UniProt Related Accession #	Q92908
GenBank Nucleotide #	NM_005257.4
NCBI Official Full Name	transcription factor GATA-6
NCBI Official Synonym Full Names	GATA binding protein 6
NCBI Official Symbol	GATA6
UniProt Protein Name	Transcription factor GATA-6
UniProt Synonym Protein Names	GATA-binding factor 6
Protein Family	GATA transcription factor
UniProt Gene Name	GATA6
UniProt Entry Name	GATA6_HUMAN
NCBI Protein Information	transcription factor GATA-6; GATA-binding factor 6
NCBI Summary for GATA6	This gene is a member of a small family of zinc finger transcription factors that play an important role in the regulation of cellular differentiation and organogenesis during vertebrate development. This gene is expressed during early embryogenesis and localizes to endo- and mesodermally derived cells during later embryogenesis and thereby plays an important role in gut, lung, and heart development. Mutations in this gene are associated with several congenital defects. [provided by RefSeq, Mar 2012]

UniProt Comments for GATA6	GATA6: Transcriptional activator that regulates SEMA3C and PLXNA2. Thought to be important for regulating terminal differentiation and/or proliferation. Interacts with LMCD1. Expressed in heart, gut and gut-derived tissues. 2 isoforms of the human protein are produced by alternative initiation. Protein type: Transcription factor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 18q11.1-q11.2 Cellular Component: nucleoplasm; transcription factor complex; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; zinc ion binding; chromatin binding; transcription factor activity; transcription factor binding; protein kinase binding Biological Process: transcription from RNA polymerase II promoter; response to drug; cardiac muscle hypertrophy; endodermal cell fate determination; organ formation; in utero embryonic development; male gonad development; negative regulation of transcription from RNA polymerase II promoter; liver development; cardiac muscle cell differentiation; negative regulation of transforming growth factor-beta1 production; negative regulation of transforming growth factor-beta2 production; positive regulation of angiogenesis; response to estrogen stimulus; phospholipid metabolic process; positive regulation of cardioblast differentiation; smooth muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; blood coagulation; tube morphogenesis; negative regulation of apoptosis; positive regulation of cardiac muscle cell proliferation Disease: Conotruncal Heart Malformations; Atrial Septal Defect 9; Heart Defects, Congenital, And Other Congenital Anomalies; Tetralogy Of Fallot; Atrioventricular Septal Defect 5
Research Articles on GATA6	**1.** Results imply that miRNA-145 indirectly targets BMP4 via GATA6 and is potentially involved in the development of Barrett Esophagus (BE).
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