

Anti-Phospho-GATA-4 (S105) antibody



Description	Rabbit polyclonal to Phospho-GATA-4 (S105).
Model	STJ91340
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human GATA-4 around the phosphorylation site of S105.
Immunogen Region	40-120 aa
Gene ID	2626
Gene Symbol	GATA4
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	Phospho-GATA-4 (S105) Polyclonal Antibody detects endogenous levels of GATA-4 protein only when phosphorylated at S105.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Transcription factor GATA-4 GATA-binding factor 4
Molecular Weight	45 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4173 OMIM:187500
Alternative Names	Transcription factor GATA-4 GATA-binding factor 4
Function	Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays a key role in cardiac development and function . In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it downregulates endocardial and endothelial gene expression . Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression. Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions . Acts as a transcriptional activator of ANF in cooperation with NKX2-5 . Promotes cardiac myocyte enlargement . Required during testicular development . May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase .
Cellular Localization	Nucleus
Post-translational Modifications	Methylation at Lys-300 attenuates transcriptional activity.