Best Tools for immunology Research

GATA-4 (phospho Ser262) Polyclonal Antibody

Catalog No :	YP0554
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	GATA-4
Fields :	>>cGMP-PKG signaling pathway;>>Cellular senescence;>>Tight junction;>>Thyroid hormone signaling pathway
Gene Name :	GATA4
Protein Name :	Transcription factor GATA-4
Human Gene Id :	2626
Human Swiss Prot No :	P43694
Mouse Gene Id :	14463
Mouse Swiss Prot No :	Q08369
Rat Gene Id :	54254
Rat Swiss Prot No :	P46152
Immunogen :	The antiserum was produced against synthesized peptide derived from human GATA4 around the phosphorylation site of Ser262. AA range:228-277
Specificity :	Phospho-GATA-4 (S262) Polyclonal Antibody detects endogenous levels of GATA-4 protein only when phosphorylated at S262.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other

applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 48kD

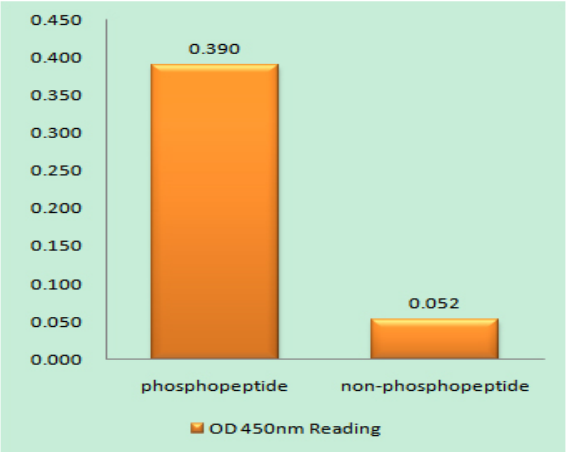
Background : This gene encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function, and is necessary for normal testicular development. Mutations in this gene have been associated with cardiac septal defects. Additionally, alterations in gene expression have been associated with several cancer types. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015],

Function : disease:Defects in GATA4 are the cause of atrial septal defect type 2 (ASD2) [MIM:607941]. ASD2 is a congenital heart malformation characterized by incomplete closure of the wall between the atria resulting in blood flow from the left to the right atria. ASD2 patients show other heart abnormalities including ventricular and atrioventricular septal defects, pulmonary valve thickening or insufficiency of the cardiac valves. ASD2 is not associated with defects in the cardiac conduction system or non-cardiac abnormalities.,function:Transcriptional activator. Binds to the consensus sequence 5'-AGATAG-3'. Acts as a transcriptional activator of ANF in cooperation with NKX2-5.,similarity:Contains 2 GATA-type zinc fingers.,subunit:Interacts with ZNF260 (By similarity). Interacts with the homeobox domain of NKX2-5 through its C-terminal zinc finger. Also interacts with JARID2 which represses its a

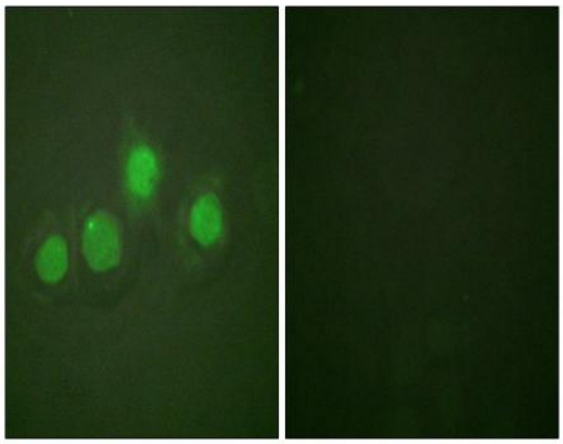
Subcellular Location : Nucleus .

Expression : Heart,Lung,

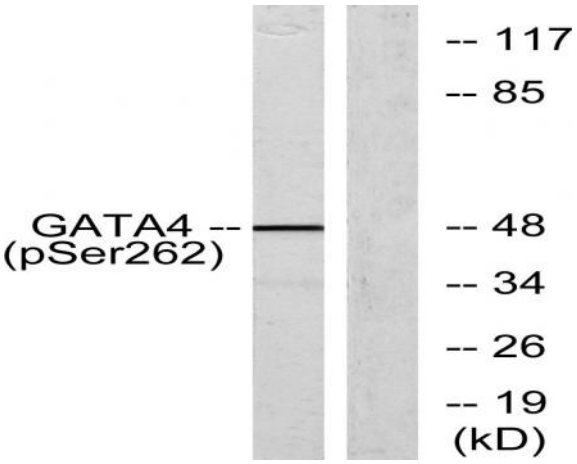
Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using GATA4 (Phospho-Ser262) Antibody



Immunofluorescence analysis of HUVEC cells, using GATA4 (Phospho-Ser262) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells, using GATA4 (Phospho-Ser262) Antibody. The lane on the right is blocked with the phospho peptide.