

## GATA-4 (Phospho Ser105) Rabbit pAb

CatalogNo: YP1180

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, IF, ELISA

#### MW

- 45kD (Calculated)

#### Isotype

- IgG

### Storage

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

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:20000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human GATA4 around the phosphorylation site of Ser105. AA range:71-120

**Specificity**

Phospho-GATA-4 (S105) Polyclonal Antibody detects endogenous levels of GATA-4 protein only when phosphorylated at S105. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PVsPR

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## | Target Information

**Gene name** GATA4

**Protein Name** Transcription factor GATA-4

Organism	Gene ID	UniProt ID
Human	<a href="#">2626</a> ;	<a href="#">P43694</a> ;
Mouse	<a href="#">14463</a> ;	<a href="#">Q08369</a> ;
Rat	<a href="#">54254</a> ;	<a href="#">P46152</a> ;

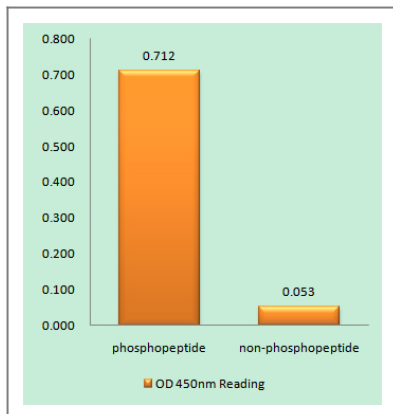
**Cellular Localization** Nucleus .

**Tissue specificity** Heart ,Lung ,

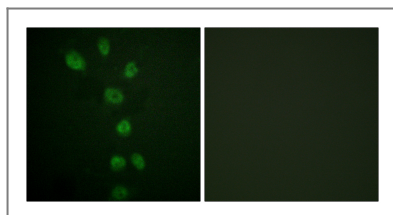
**Function** Disease:Defects in GATA4 are the cause of atrial septal defect type 2 (ASD2) [MIM:607941]. ASD2 is a congenital heart malformation characterized by incomplete closure of the wall between the atria resulting in blood flow from the left to the right atria. ASD2 patients show other heart abnormalities 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 ability to activate transcription of ANF. Interacts with NFATC4. ,

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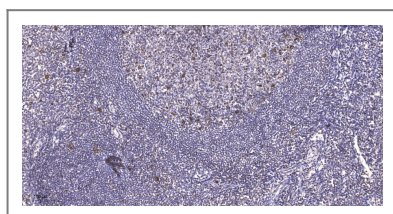
## | Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using GATA4 (Phospho-Ser105) Antibody



Immunofluorescence analysis of HepG2 cells, using GATA4 (Phospho-Ser105) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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**GATA-4 (Phospho Ser105) Rabbit pAb**

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