bs-1778R **[Primary Antibody]**

GATA4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2626 **SWISS:** P43694

Target: GATA4

Immunogen: KLH conjugated synthetic peptide derived from human GATA-4: 261-360/442.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: GATA4 is a 46 kDa member of the GATA family of zinc finger containing transcription factors that is involved in the development of cardiac hypertrophy and remodeling, and plays a critical role in regulating basal and agonist or stress induced gene expression in cardiac and smooth muscle cell types. GATA4 contains a conserved MAPK phosphorylation site at serine 105 within the transcriptional activation domain. Serine 105 of GATA4 is phosphorylated in response to agonist stimulation through MEK 1 ERK1 / 2, and weakly through JNK or p38 MAPKs.

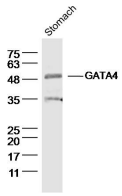
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Cow, Chicken, Dog)

Predicted MW.: 49 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Stomach (Mouse) Lysate at 40 ug
Primary: Anti-GATA4 (bs-1778R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD
Observed band size: 49 kD

SELECTED CITATIONS

- **[IF=5.108]** Yang Z et al. A pilot study on polycystic ovarian syndrome caused by neonatal exposure to tributyltin and bisphenol A in rats. Chemosphere. 2019 Sep;231:151-160. WB ;Rat. 31129395
- **[IF=3.571]** Wu P et al. Fluoride induces autoimmune orchitis involved with enhanced IL-17A secretion in mice testis. J Agric Food Chem. 2019 Dec 4;67(48):13333-13343. IF ;Mouse. 31703480
- **[IF=3.427]** Gao et al. Common expression of stemness molecular markers and early cardiac transcription factors in human Wharton's jelly-derived mesenchymal stem cells and embryonic stem cells. (2013) Cell.Transplan. 22:1883-900 ICC ;Human. 23394400
- **[IF=2.649]** Kim CW et al. Effects of cigarette smoke components on myocardial differentiation of mouse embryonic stem cells. Environ Toxicol. 2019 Sep 10. WB ;Mouse. 31507073

- **[IF=3.143]** Sung-Moo Lee. et al. Effect of the phenylpyrrole fungicide fludioxonil on cell proliferation and cardiac differentiation in mouse embryonic stem cells. Reprod Toxicol. 2021 Sep;104:76 WB ;Mouse. 34280493