

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human GATA-4 in Western blots. In Western blots, less than 2% cross-reactivity with recombinant human GATA-1, -2, -3, -5, and -6 is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human GATA-4 Met27-Phe211 Accession # P43694 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details. |

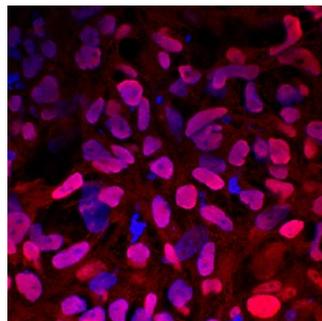
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|----------------------------|----------------------------------|--------------------------|
| Western Blot | 0.1 µg/mL | Recombinant Human GATA-4 |
| Immunocytochemistry | 5-15 µg/mL | See Below |

DATA

Immunocytochemistry



GATA-4 in iBJ6 IPS Cell Line. GATA-4 was detected in immersion fixed iBJ6, an induced pluripotent stem cell line, differentiated to endoderm using Goat Anti-Human GATA-4 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF2606) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

GATA-4 belongs to the GATA family of transcription factors, which bind to the consensus DNA sequence (A/T) GATA (A/G) to control diverse tissue-specific programs of gene expression and morphogenesis. It is widely expressed in mesodermal- and endodermal-derived tissues. GATA-4 interacts with other transcription factors such as NKX2.5, and myocyte enhancer factor 2 to regulate cardiac myocyte-specific gene expression. Human GATA-4 share 93%, 93% and 92% amino acid sequence identity with porcine, rat and mouse GATA-4, respectively.