

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GATA-4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 532025
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GATA-4 Met27-Ser212 Accession # P43694
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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. GATA-4 contains 2 zinc finger-binding domains and migrates at 56 kDa in SDS-PAGE gels. Human GATA-4 share 93%, 93% and 92% amino acid sequence identity with porcine, rat and mouse GATA-4, respectively.

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