

DESCRIPTION

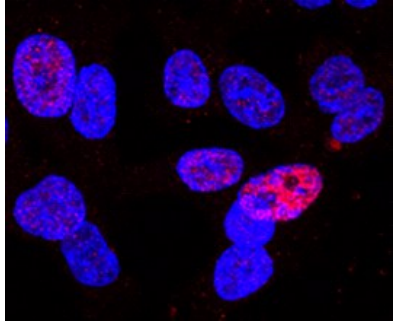
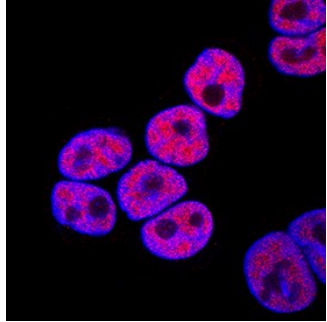
Species Reactivity	Human
Specificity	Detects human GATA-6 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human (rh) GATA-1 or rhGATA-2.
Source	Monoclonal Mouse IgG ₁ Clone # 222228
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GATA-6 Met1-Ala449 Accession # CAA64997
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	1 µg/mL	Recombinant Human GATA-6
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Immunocytochemistry</p>  <p>GATA-6 in HCT-116 Human Cell Line. GATA-6 was detected in immersion fixed HCT-116 human colorectal carcinoma cell line using Mouse Anti-Human GATA-6 Monoclonal Antibody (Catalog # MAB1700) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>	<p>Immunocytochemistry</p>  <p>GATA-6 in HT-29 Human Cell Line. GATA-6 was detected in immersion fixed HT-29 human colon adenocarcinoma cell line using Mouse Anti-Human GATA-6 Monoclonal Antibody (Catalog # MAB1700) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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-6 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. GATA-6 is expressed in visceral and parietal endoderm and other tissues. It interacts with several additional proteins to regulate gene expression in heart, lung, gut and gonads (1).

References:

1. Patient, R.K. and J. McGhee (2002) *Curr. Opin. Genet. Dev.* **12**:416.