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GATA3 Recombinant Monoclonal Antibody

Product Code	CSB-RA196111A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P23771
Immunogen	A synthesized peptide derived from human GATA3
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'. Required for the T-helper 2 (Th2) differentiation process following immune and inflammatory responses.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
lsotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Developmental biology; Immunology; Stem cells
Gene Names	GATA3
Clone No.	2A9

Image





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IHC image of CSB-RA196111A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA196111A0HU diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The generation of the GATA3 recombinant monoclonal antibody involves a wellstructured process to ensure its superior quality and specificity. It begins by isolating B cells from the spleen of an immunized animal, where the synthesized peptide derived from human GATA3 is used as the immunogen. RNA is extracted from these B cells and converted into complementary DNA (cDNA) through reverse transcription. The GATA3 antibody genes are then amplified using specific primers targeting the antibody constant regions and inserted into an expression vector. The vector is subsequently introduced into host cells through transfection, facilitating the production of the GATA3 recombinant monoclonal antibody. Following a suitable incubation period, the antibody is harvested from the cell culture supernatant and meticulously purified using affinity chromatography to obtain a highly purified form of the GATA3 recombinant monoclonal antibody suitable for various applications. Rigorous characterization assays, including ELISA, WB, and IHC analysis, are performed to confirm the antibody's specificity and functionality in detecting human GATA3 protein. Through this rigorous production process, a dependable and effective GATA3 recombinant monoclonal antibody is developed, serving as a valuable tool in diverse research pertaining to GATA3.