

Product datasheet for **TA320338**

GATA3 Rat Monoclonal Antibody [Clone ID: TWAJ]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TWAJ
Applications:	WB
Recommended Dilution:	ICC, WB
Reactivity:	Human, Mouse
Host:	Rat
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	GATA binding protein 3
Database Link:	NP_002042 Entrez Gene 14462 Mouse Entrez Gene 2625 Human P23771

Background: The monoclonal antibody TWAJ recognizes mouse and human Gata-3, a member of the Gata family of transcription factors. Gata-3 is a T cell-specific transcription factor important for thymic development and Th2 differentiation. Expression during embryonic development is found in the central nervous system, skin, mammary glands and kidney. During development, the expression of Gata-3 is essential as homozygous knock-out of Gata-3 is embryonic lethal. The Gata-3 is also essential for T cell commitment and survival. In the thymus, expression is found mainly on the CD4 single positive cells. During Th2 differentiation, Gata-3 binds to the IL-4 promoter as well as represses the expression of T-bet, thus inhibiting Th1 differentiation. Alternative splice variants have been reported especially in the MCF7 cell line. The TWAJ anti-mouse/human Gata-3 antibody will recognize both forms (50 and 45 kDa) of the protein. Staining with the TWAJ anti-mouse/human Gata-3 antibody requires the use of the Foxp3 Staining Buffer Set.

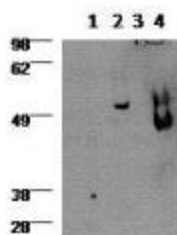


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Synonyms: HDR; HDRS

Protein Families: Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Product images:



Western blot using 2 ug/mL Anti-Human/Mouse Gata-3 Purified) and revealed with Anti-Rat IgG HRP. Lane 1: 3 day anti-CD3/CD28 stimulated human CD4 cells, 2: 6 day Th2 polarized cultured human cells, 3: Jurkat cell line, 4: MCF7 cell line