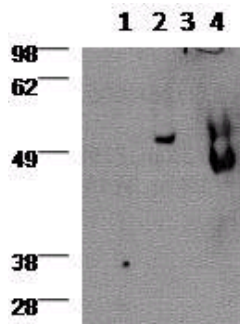


## Anti-Human/Mouse Gata-3 Purified

Catalog Number: 14-9966

Also Known As: Gata3

RUO: For Research Use Only



Western blot using 2 µg/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

### Product Information

Contents: Anti-Human/Mouse Gata-3 Purified

**REF** Catalog Number: 14-9966

Clone: TWAJ

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2b, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

### Description

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.

### Applications Reported

This TWAJ antibody has been reported for use in immunoblotting (WB) and immunocytochemistry.

### Applications Tested

This TWAJ antibody has been tested by western blotting of Th2 polarized human or mouse CD4 T cells or MCF7 cell line. This can be used at less than or equal to 2 µg/ml. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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#### Related Products

14-4031 Rat IgG2b K Isotype Control Purified

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