

anti- GATA-1

Cat #: HM1161
Rat monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

GATA1 (ERYF1, GF1, NF1) is a member of a family comprising GATA1, GATA2, GATA3, GATA4, GATA5, GATA6 and OSP1. They share a conserved zinc finger DNA binding domain and are capable of binding the WGATAR consensus sequence. The expression patterns of the various GATA transcription factors may overlap. It is not yet clear how the GATA factors are able to discriminate in binding their appropriate target sites. GATA1 is expressed primarily in erythroid, megakaryocytic, mast cells and eosinophilic cells. It activates transcription from (A/T) GATA (A/G) elements in the regulatory sequences of virtually all erythroid genes, but also in some non-erythroid genes e.g. of spermatogenic cells. GATA1 associates with p300/CREB binding protein acetyltransferase; acetylation of GATA1 stimulates GATA1 dependent transcription. GATA1 serves as a central regulator for erythroid gene transcription and development. GATA1 expression is enhanced during erythroid maturation. It is able to reprogram cellular phenotype in a dominant fashion. GATA1 is involved in blocking apoptosis of precursor cells and in controlling the balance between proliferation and cell cycle arrest. FOG.

SPECIFICITY

This antibody reacts with GATA-1 of human, mouse and rat origin.

It can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular Weight GATA-1: 46 kDa.

Western blotting positive controls: K-562 cells.

IMMUNOGEN

A synthetic peptide at the N-terminus of human GATA-1 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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