

GATA-1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit	UniProt ID: #P15976	Entrez-Gene Id: 2623
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GATA-1 Antibody detects endogenous levels of total GATA-1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro401 of human GATA-1. Antibodies are purified by peptide affinity chromatography

Background

GATA proteins comprise a group of transcription factors that are related by the presence of conserved zinc finger DNA-binding domains, which bind directly to the nucleotide sequence core element GATA (1-3). There are six vertebrate GATA proteins, designated GATA-1 to GATA-6 (3).

GATA-1 is the founding member of the GATA family and is required for erythroid and megakaryocytic cell development (4,5). Mutations in GATA-1 have been linked to many human diseases, including acute megakaryoblastic leukemia in Down syndrome children (DS-AMKL), X-linked thrombocytopenia, and gray platelet syndrome (6-9).

Background References

1. Ko, L.J. and Engel, J.D. (1993) *Mol Cell Biol* 13, 4011-22.
2. Merika, M. and Orkin, S.H. (1993) *Mol Cell Biol* 13, 3999-4010.
3. Lowry, J.A. and Atchley, W.R. (2000) *J Mol Evol* 50, 103-15.
4. Pevny, L. et al. (1991) *Nature* 349, 257-60.
5. Fujiwara, Y. et al. (1996) *Proc Natl Acad Sci USA* 93, 12355-8.
6. Wechsler, J. et al. (2002) *Nat Genet* 32, 148-52.
7. Cantor, A.B. (2005) *Int J Hematol* 81, 378-84.
8. Mehafeff, M.G. et al. (2001) *Blood* 98, 2681-8.
9. Tubman, V.N. et al. (2007) *Blood* 109, 3297-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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