

GATA-1 (Acetyl Lys312) rabbit pAb

Cat No.: ES20070

For research use only

Overview

Product Name GATA-1 (Acetyl Lys312) rabbit pAb

Host species Rabbit
Applications WB; ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions WB 1:1000-2000 ELISA 1:5000-20000

Immunogen Synthesized peptide derived from human GATA-1

(Acetyl Lys312)

Specificity This antibody detects endogenous levels of

Human, Mouse, Rat GATA-1 (Acetyl Lys312)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20° C. Avoid repeated freeze-thaw cycles.

Protein Name GATA-1 (Acetyl Lys312)
Gene Name GATA1 ERYF1 GF1

Cellular localization Nucleus.

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 45kD
Human Gene ID 2623
Human Swiss-Prot Number P15976

Background

Alternative Names Erythroid transcription factor (Eryf1;GATA-binding

factor 1;GATA-1;GF-1;NF-E1 DNA-binding protein) disease:Defects in GATA1 are the cause of X-linked dyserythropoietic anemia and thrombocytopenia

(XDAT) [MIM:300367]. XDAT is a disorder

characterized by erythrocytes with abnormal size and shape, and paucity of platelets in peripheral blood. The bone marrow contains abundant and abnormally small megakaryocytes., disease: Defects

in GATA1 are the cause of X-linked



+86-27-59760950 ELKbio@ELKbiotech.com

www.elkbiotech.com



thrombocytopenia with beta-thalassemia (XLTT) [MIM:314050]; also called thrombocytopenia, platelet dysfunction, hemolysis, and imbalanced globin synthesis. The disease consists of an unusual form of thrombocytopenia with beta-thalassemia. Patients have splenomegaly and petechiae, moderate thrombocytopenia, prolonged bleeding time due to platelet dysfunction, reticulocytosis and unbalanced (hemo)globin chain synthesis resembling that of beta-thalassemia minor., domain: The two fingers are functionally distinct and cooperate to achieve specific, stable DNA binding. The first finger is necessary only for full specificity and stability of binding, whereas the second one is required for binding., function: Transcriptional activator which probably serves as a general switch factor for erythroid development. It binds to DNA sites with the consensus sequence [AT]GATA[AG] within regulatory regions of globin genes and of other genes expressed in erythroid cells.,PTM:Highly phosphorylated on serine residues. Phosphorylation on Ser-310 is enhanced on erythroid differentiation. Phosphorylation on Ser-142 promotes sumoylation on Lys-137.,PTM:Sumoylation on Lys-137 is enhanced by phosphorylation on Ser-142 and by interaction with PIAS4. Sumoylation by SUMO1 has no effect on transcriptional activity., similarity: Contains 2 GATA-type zinc fingers., subunit: Interacts (via the N-terminal zinc finger) with ZFPM1. Interacts with GFI1B. Interacts with PIAS4; the interaction enhances sumoylation and represses the transactivational activity in a sumoylation-independent manner., tissue specificity:Erythrocytes.,



+86-27-59760950