

## Product datasheet for **AP02584PU-S**

### GATA1 Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | WB  |
| Recommended Dilution: | Western Blot: 1:500~1:1000.   |
| Reactivity:           | Human, Mouse  |
| Host:                 | Rabbit  |
| Clonality:            | Polyclonal  |
| Immunogen:            | The antiserum was produced against synthesized non-phosphopeptide derived from human GATA1 around the phosphorylation site of serine 310 (K-A-SP-G-K).                        |
| Specificity:          | GATA1 antibody detects endogenous levels of total GATA1 protein.  |
| Formulation:          | PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol<br>State: Aff - Purified<br>State: Liquid purified IgG |
| Concentration:        | lot specific  |
| Purification:         | Affinity-chromatography using epitope-specific immunogen  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store the antibody at -20°C.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: one year from despatch.   |
| Gene Name:            | GATA binding protein 1  |
| Database Link:        | <a href="#">Entrez Gene 2623 Human P15976</a>   |



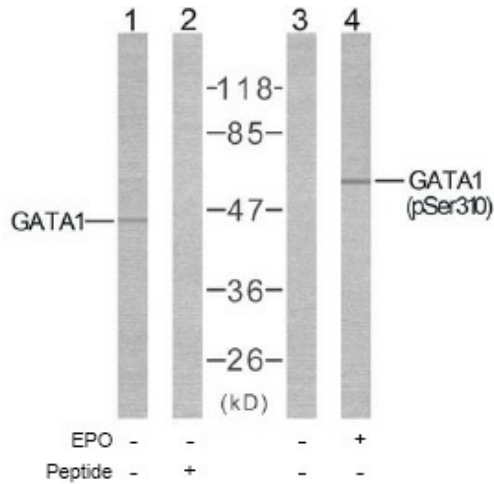
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**Background:**

GATA1 (Globin transcription factor 1) is a Cys2/Cys2 zinc finger DNA binding protein that is expressed primarily in erythroid, megakaryocytic, mast cells and eosinophilic cells. It belongs to the GATA family of transcription factors. GATA1 is a 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. The protein also plays an important role in erythroid development by regulating the switch from fetal hemoglobin production to adult hemoglobin. Mutations in this gene have been associated with X-linked dyserythropoietic anemia and thrombocytopenia. Acquired somatic mutations in GATA1 occur in virtually all children with Down's Syndrome, congenital transient myeloproliferative syndrome (TMD) and acute megakaryocytic leukemia.

**Synonyms:**

GATA-1, ERYF1, GF1, Erythroid transcription factor, Eryf1, GATA-binding factor 1, GATA-1, GF-1, NF-E1 DNA-binding protein

**Product images:**


Western blot analysis of extracts from COS7 cells using GATA1 antibody (Line1 and 2) and GATA1 (pSer310) antibody. (Line 3 and 4)