

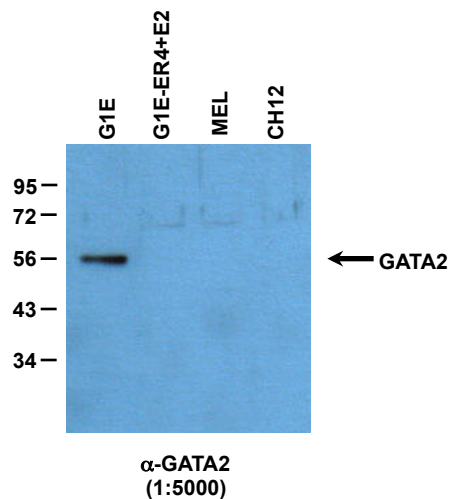
Hardison Lab @ Penn State University GATA2_(SC-9008) antibody validation

Validation analyses #1 and #2: The specificity of the GATA2_(SC-9008) antibody is shown by 1) the detection of a single band in G1E cells, and 2) the loss of that signal upon repression of the *Gata2* gene in G1E-ER4+E2 cells.

Western blot analysis of GATA2 expression in various mouse cell lines.

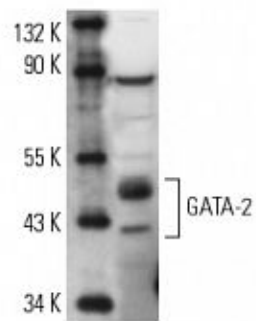
Whole cell extracts prepared from G1E, G1E-ER4+E2, MEL, and CH12 cells were separated by SDS-PAGE and transferred to PVDF using standard immunoblotting methods. GATA2 expression was detected using rabbit anti-GATA2 (H-116; sc-9008, 1:5000) followed by incubation with anti-rabbit secondary antibody (1:5000) and detected by ECL Plus (Amersham Biosciences). As expected, GATA2 was detected in G1E cells (a model for erythroid progenitor cells), but not G1E-ER4+E2 cells (a model for differentiating erythroblasts), consistent with published microarray data (Welch et al., 2004) showing that the *Gata2* gene is expressed abundantly in progenitors but is strongly repressed during differentiation. As expected, no GATA2 is detected in MEL (erythroblast model) or CH12 cells (a B-cell lymphoma; GATA2 is not found in this lineage). Thus the specificity of this antibody is shown by the detection of a single band in G1E cells and the loss of that signal upon repression of the *Gata2* gene.

Welch et al. 2004. Global regulation of erythroid gene expression by transcription factor GATA-1. *Blood*. 104: 3136-3147.



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Validation analysis #3: Western blot image from Santa Cruz Biotechnology datasheet for GATA1 (H-116): sc-9008. <http://www.scbt.com/datasheet-9008-gata-2-h-116-antibody.html>



GATA-2 (H-116): [sc-9008](#). Western blot analysis of GATA-2 expression in MCP-5 whole cell lysate.