BACKGROUND
The Abl oncogene was initially identified as the viral transforming gene of Abelson murine leukemia virus (A-MuLV). The major translational product of c-Abl has been identified as a protein with tyrosine kinase activity and an SH2 domain. The Abl oncogene is implicated in several human leukemias including 90-95% of chronic myelocytic leukemia (CML), 20-25% of adult acute lymphoblastic leukemia (ALL) and 2-5% of pediatric ALL. In these leukemias the c-Abl proto-oncogene undergoes a (9;22) chromosomal translocation producing the Philadelphia (Ph1) chromosome. The molecular consequence of this translocation is the generation of a chimeric Bcr/c-Abl mRNA encoding activated Abl protein-tyrosine kinase. The Bcr gene has been shown to encode a GTPase-activating protein (GAP) specific for the Ras-related GTP-binding protein, p21rac.

CHROMOSOMAL LOCATION
Genetic locus: ABL1 (human) mapping to 9q34.12, BCR (human) mapping to 22q11.23; Abl1 (mouse) mapping to 20B, Bcr (mouse) mapping to 10B5.3.

SOURCE
c-Abl (24-11) is a mouse monoclonal antibody raised against a region within the c-Abl p120 C-terminus domain.

PRODUCT
Each vial contains 100 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
c-Abl (24-11) is recommended for detection of c-Abl p120 and chimeric Bcr/Abl proteins in CML and ALL of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for c-Abl siRNA (h): sc-29843, c-Abl siRNA (m): sc-29844, c-Abl siRNA (r): sc-270357, c-Abl shRNA Plasmid (h): sc-29843-SH, c-Abl shRNA Plasmid (m): sc-29844-SH, c-Abl shRNA Plasmid (r): sc-270357-SH, c-Abl shRNA (h) Lentiviral Particles: sc-29843-V, c-Abl shRNA (m) Lentiviral Particles: sc-29844-V and c-Abl shRNA (r) Lentiviral Particles: sc-270357-V.

Molecular Weight of c-Abl: 120 kDa.
Molecular Weight of Bcr/Abl fusion protein: 210 kDa.
Positive Controls: K-562 whole cell lysate: sc-2203 or RAW 264.7 whole cell lysate: sc-2211.

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE
For research use only, not for use in diagnostic procedures.

SELECT PRODUCT CITATIONS

See c-Abl (8E9): sc-56887 for c-Abl antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.