

Product datasheet

K562 whole cell lysate ab7911

1 References

Overview

Product name	K562 whole cell lysate
General notes	<p>Cell line: K562 (Human Chronic Myelogenous Leukemia). Growth media: RPMI and 10% NCS (Newborn calf serum).</p> <p>K562 cell lysate was prepared by homogenization in modified RIPA buffer (150 mM sodium chloride, 50 mM Tris-HCl, pH 7.4, 1 mM ethylenediaminetetraacetic acid, 1 mM phenylmethylsulfonyl flouride, 1% Triton X-100, 1% sodium deoxycholic acid, 0.1% sodium dodecylsulfate, 5 µg/ml of aprotinin, 5 µg/ml of leupeptin). Cell debris was removed by centrifugation. Protein concentration was determined with Bio-Rad protein assay. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol.</p>
Tested applications	Suitable for: WB

Properties

Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 6.80 Constituent: 5% Beta mercaptoethanol</p>
Purity	Whole Cell Lysate
Lysate notes	<p>K562 cell lysate was prepared by homogenization in modified RIPA buffer (150 mM sodium chloride, 50 mM Tris-HCl, pH 7.4, 1 mM ethylenediaminetetraacetic acid, 1 mM phenylmethylsulfonyl flouride, 1% Triton X-100, 1% sodium deoxycholic acid, 0.1% sodium dodecylsulfate, 5 µg/ml of aprotinin, 5 µg/ml of leupeptin). Cell debris was removed by centrifugation. Protein concentration was determined with Bio-Rad protein assay. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol.</p>
Background	<p>K-562 is an erythroleukemia cell line derived from a chronic myeloid leukemia patient in blast crisis. Recent studies have shown the K562 blasts are multipotential, hematopoietic malignant cells that spontaneously differentiate into recognisable progenitors of the erythrocyte, granulocyte and monocytic series. Cells are also used for haemoglobin synthesis, antitumour testing, tumorigenicity, differentiation, pharmacodynamics, cloning, cytotoxicity, cell biology, cellular effects of hyperthermia, and natural killer assays.</p>

Applications

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The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. K562 cell lysate is ready to load on SDS-PAGE for Western blotting, 20 µg per lane is recommended for mini gel.

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