

# human heart extract: sc-363763

## BACKGROUND

Santa Cruz Biotechnology offers a variety of tissue extracts for use in combination with our antibodies as Western Blotting controls. Human heart extract is derived from normal, healthy human heart tissue using a procedure that ensures protein integrity and lot-to-lot reproducibility. All tissue extracts are tested by Western Blotting to assure that each one contains the expected concentration and assortment of proteins. Numerous antibodies directed against a wide array of mammalian proteins are used to test each tissue extract.

## REFERENCES

1. Dietze, A., Peng, Q., Selbo, P.K., Kaalhus, O., Müller, C., Bown, S. and Berg, K. 2005. Enhanced photodynamic destruction of a transplantable fibrosarcoma using photochemical internalisation of gelonin. *Br. J. Cancer* 92: 2004-2009.
2. Wang, C.X., Koay, D.C., Edwards, A., Lu, Z., Mor, G., Ocal, I.T. and Digiovanna, M.P. 2005. *In vitro* and *in vivo* effects of combination of Trastuzumab (Herceptin) and Tamoxifen in breast cancer. *Breast Cancer Res. Treat.* 92: 251-263.

## SOURCE

human heart extract is derived from normal, healthy human heart tissue. The human heart tissue is negative for human HIV, hepatitis B and hepatitis C.

## PRODUCT

Each vial contains 500 µg protein in 200 µl of an SDS-PAGE Western Blotting buffer, which consists of 100 µl RIPA Lysis Buffer and 100 µl Electrophoresis Buffer, 2X.

## APPLICATIONS

human heart extract is provided as a Western Blotting positive control. Recommended use is 50 µg (20 µl) per lane. Tissue extract vial should be placed at 95° C for 3-5 minutes once prior to use. For endogenous controls, load up to 20 µl (50 µg) per lane (15 well [8.0 cm x 8.0 cm] gel).

## PREPARATION METHOD

Frozen tissues are reduced to a granular powder using a tissue crusher. Crushed tissues are suspended in solution and lysed using the RIPA Lysis Buffer System (sc-24948). The BCA Protein Assay Kit (sc-202389) is used to determine the total protein concentration. The lysate is adjusted to contain 500 µg of total cellular protein in 100 µl before adding an equal volume of Electrophoresis Sample Buffer, 2X (sc-24945). Final concentration of product is 500 µg total protein in a final volume of 200 µl.

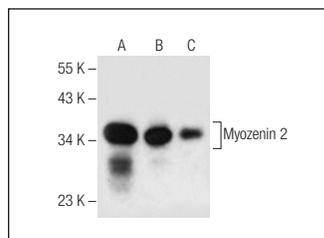
## STORAGE

Store at -20° C; stable for one year from the date of shipment. Non-hazardous. No MSDS required. Minimize repeated freezing and thawing.

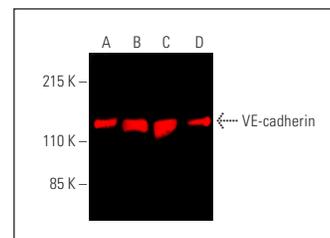
## RESEARCH USE

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

## DATA



Myozenin 2 (E-11): sc-377359. Western blot analysis of Myozenin 2 expression in mouse heart (A), human heart (B) and human skeletal muscle (C) tissue extracts.



VE-cadherin (F-8) Alexa Fluor® 790: sc-9989 AF790. Direct near-infrared western blot analysis of VE-cadherin expression in HUV-EC-C whole cell lysate (A) and human lung (B), human heart (C) and human placenta (D) tissue extracts. Blocked with UltraCruz® Blocking Reagent: sc-516214.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.