SANTA CRUZ BIOTECHNOLOGY, INC.

Human Platelet Extract: sc-363773

BACKGROUND

Santa Cruz Biotechnology Inc. offers blood platelet extracts for use in combination with research antibodies as western blotting controls. Human platelet cell extract is derived from normal, healthy human platelets using a preparation method (RIPA Lysis Buffer System (sc-24948)), that ensures protein integrity and lot-to-lot reproducibility. Human platelet cell extracts are tested by western blotting in order to ensure each preparation contains a consistent concentration, and assortment of proteins.

REFERENCES

1. Zufferey, A., et al. 2012. Platelet proteomics. Mass Spectrom. Rev. 31: 331-351.
2. Thon, J.N. and Italiano, J.E. 2012. Platelets: production, morphology and ultrastructure. Handb. Exp. Pharmacol. 210: 3-22.
3. Holinstat, M. 2017. Normal platelet function. Cancer Metastasis Rev. 36: 195-198.
4. Koupenova, M., et al. 2018. Circulating platelets as mediators of immunity, inflammation, and thrombosis. Circ. Res. 122: 337-351.

SOURCE

Organism:	*Homo sapiens* (human)
Organ:	Normal human blood platelets (non-diseased)
Source:	Human platelet extract is derived from ethically sourced blood platelets via patient consent donors.

Infectious disease testing: Serological testing; human immunodeficiency virus (HIV 1 Ab,HIV 2 Ab) negative, syphilis (STS) negative, human T-cell leukemia virus type (HTLV) negative, hepatitis C (HCV) Ab negative, hepatitis B core (HBc) Ab negative, hepatitis B surface antigen (HBs Ag) negative, nucleic acid testing hepatitis B (NATB) negative, nucleic acid testing hepatitis C (NATC) negative, West Nile virus (WNV) negative.

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 platelet extract is provided as a Western Blotting positive control. Recommended use is 50 µg (20 µl) per lane. Sample vial should be boiled once prior to use.

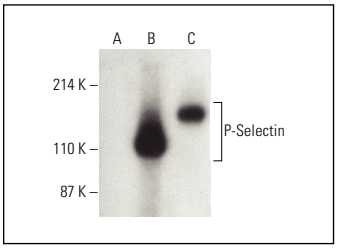
PREPARATION METHOD

Fresh frozen human platelet are suspended in solution and lysed using the RIPA Lysis Buffer System (sc-24948). 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.

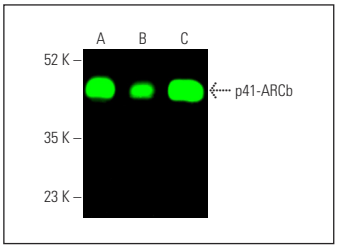
STORAGE

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

DATA



P-Selectin (H-2): sc-271267. Western blot analysis of P-Selectin expression in non-transfected 293T: sc-117752 (**A**) and human P-Selectin transfected 293T: sc-114655 (**B**) whole cell lysates and human platelet extract (**C**). Detection reagent used: m-IgG Fc BP-HRP: sc-525409.



p41-ARCb (C-3): sc-137125. Near-Infrared western blot analysis of p41-ARCb expression in PC-3 (**A**) and Hep G2 (**B**) whole cell lysates and human platelet extract (**C**). Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2b}$ BP-CFL 680: sc-542749.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.