SANTA CRUZ BIOTECHNOLOGY, INC.

EOC 20 Whole Cell Lysate: sc-364187

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. EOC 20 Whole Cell Lysate is derived from the EOC 20 cell line using a procedure that ensures protein integrity and lot-to-lot reproducibility. All lysates 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 lysate.

EOC 20 is an immortalized cell line derived from the brain of an apparently normal 10 day old mouse. Cells were cloned in soft agar in the presence of CSF-1 and expanded on microcarrier beads. Beads were transferred to culture dishes and were subsequently passaged by scraping. The cell line is dependent on growth factor colony stimulating factor 1 (CSF-1) and exhibit phagocytic activity. These cells constitutively expressed high levels of major histocompatibility complex (MHC) class II antigens and expression was upregulated by recombinant murine interferon-γ (IFN-γ). The cell line is defective in TLR4 (toll-like receptor 4).

REFERENCES

1. Walker, W.S. 1994. Establishment of mononuclear phagocyte cell lines. J. Immunol. Methods 174: 25-31.
2. Walker, W.S., Gatewood, J., Olivas, E., Askew, D., Havenith, C.E. 1995. Mouse microglial cell lines differing in constitutive and interferon-γ-inducible antigen-presenting activities for naive and memory CD4+ and CD8+ T cells. J. Neuroimmunol. 63: 163-174.
3. Askew, D. and Walker, W.S. 1996. Alloantigen presentation to naive CD8+ T cells by mouse microglia: evidence for a distinct phenotype based on expression of surface-associated and soluble costimulatory molecules. Glia 18: 118-128.

SOURCE

EOC 20 Whole Cell Lysate is derived from the EOC 20 cell line.

Organism:	*Mus musculus* (mouse)
Strain:	C_3H/HeJ
Tissue:	Brain
Cell Type:	Macrophage
Morphology:	Microglia
Growth Properties:	Adherent

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.

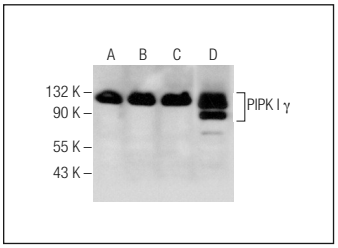
APPLICATIONS

EOC 20 Whole Cell Lysate 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.

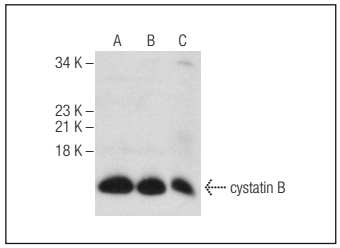
PREPARATION METHOD

Cells are cultured with appropriate media conditions and allowed to reach a confluency of 75%. Cells are 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.

DATA



PIPK I γ (H-9): sc-377061. Western blot analysis of PIPK I γ expression in EOC 20 (**A**), K-562 (**B**) and THP-1 (**C**) whole cell lysates and mouse brain tissue extract (**D**).



cystatin B (M-40): sc-66854. Western blot analysis of cystatin B expression in c4 (**A**) and EOC 20 (**B**) whole cell lysates and mouse lymph node tissue extract (**C**).

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.

PROTOCOLS

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