

CYSTM1 (1-RE17): sc-134288

BACKGROUND

With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. It is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: CYSTM1 (human) mapping to 5q31.3; Cystm1 (mouse) mapping to 18 B2.

SOURCE

CYSTM1 (1-RE17) is a mouse monoclonal antibody raised against recombinant CYSTM1 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CYSTM1 (1-RE17) is recommended for detection of CYSTM1 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CYSTM1 siRNA (h): sc-91743, CYSTM1 siRNA (m): sc-108112, CYSTM1 shRNA Plasmid (h): sc-91743-SH, CYSTM1 shRNA Plasmid (m): sc-108112-SH, CYSTM1 shRNA (h) Lentiviral Particles: sc-91743-V and CYSTM1 shRNA (m) Lentiviral Particles: sc-108112-V.

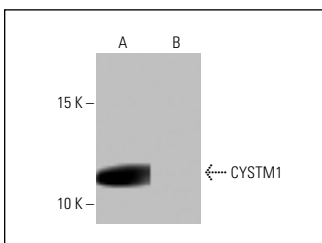
Molecular Weight of CYSTM1: 11 kDa.

Positive Controls: human CYSTM1 transfected 293T whole cell lysate or HT-29 whole cell lysate: sc-364232.

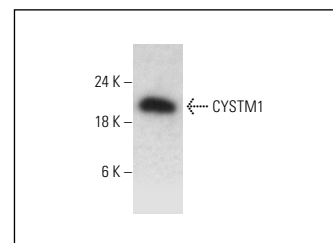
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



CYSTM1 (1-RE17): sc-134288. Western blot analysis of CYSTM1 expression in human CYSTM1 transfected (A) and non-transfected (B) 293T whole cell lysates.



CYSTM1 (1-RE17): sc-134288. Western blot analysis of CYSTM1 expression in HT-29 whole cell lysate.

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.

PROTOCOLS

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