SANTA CRUZ BIOTECHNOLOGY, INC.

IBRDC1 (36-A2): sc-101124

BACKGROUND

IBRDC1 (IBR domain-containing protein 1), also known as RNF217, is a 275 amino acid single pass membrane protein that contains two IBR (in between RING fingers)-type zinc finger motifs. It is a member of the RBR (RING between RING fingers) family of diverse proteins and belongs to the animal-specific I subfamily. RBR proteins participate in a wide variety of cellular events, including RNA metabolism, translation, transcription, cell-cycle control, cellular signaling, subcellular tethering and regulation of posttranslational modifications. IBRDC1 is believed to function as an E3 ubiquitin ligase that participates in protein ubiquitinylation and degradation.

REFERENCES

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2. Marín, I., Lucas, J.I., Gradilla, A.C. and Ferrús, A. 2004. Parkin and relatives: the RBR family of ubiquitin ligases. Physiol. Genomics 17: 253-263.
3. Arnau, V., Gallach, M., Lucas, J.I. and Marín, I. 2006. UVPAR: fast detection of functional shifts in duplicate genes. BMC Bioinformatics 7: 174.
4. Lucas, J.I., Arnau, V. and Marín, I. 2006. Comparative genomics and protein domain graph analyses link ubiquitination and RNA metabolism. J. Mol. Biol. 357: 9-17.
5. Beasley, S.A., Hristova, V.A. and Shaw, G.S. 2007. Structure of the Parkin in-between-RING domain provides insights for E3-ligase dysfunction in autosomal recessive Parkinson's disease. Proc. Natl. Acad. Sci. USA 104: 3095-3100.
6. Eisenhaber, B., Chumak, N., Eisenhaber, F. and Hauser, M.T. 2007. The RING between RING fingers (RBR) protein family. Genome Biol. 8: 209.

CHROMOSOMAL LOCATION

Genetic locus: RNF217 (human) mapping to 6q22.31; Rnf217 (mouse) mapping to 10 A4.

SOURCE

IBRDC1 (36-A2) is a mouse monoclonal antibody raised against recombinant IBRDC1 of human origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

IBRDC1 (36-A2) is recommended for detection of IBRDC1 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IBRDC1 siRNA (h): sc-95131, IBRDC1 siRNA (m): sc-146130, IBRDC1 shRNA Plasmid (h): sc-95131-SH, IBRDC1 shRNA Plasmid (m): sc-146130-SH, IBRDC1 shRNA (h) Lentiviral Particles: sc-95131-V and IBRDC1 shRNA (m) Lentiviral Particles: sc-146130-V.

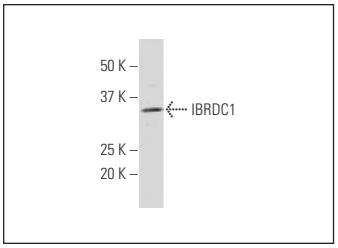
Molecular Weight of IBRDC1: 32 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

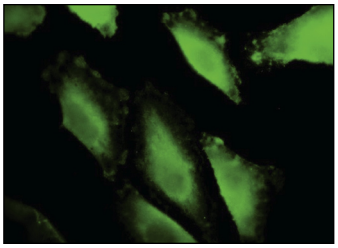
RECOMMENDED SUPPORT REAGENTS

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). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



IBRDC1 (36-A2): sc-101124. Western blot analysis of IBRDC1 expression in Hep G2 whole cell lysate.



IBRDC1 (36-A2): sc-101124. Immunofluorescence staining of paraformaldehyde-fixed Hep G2 cells showing cytoplasmic localization.

RESEARCH USE

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