

ZDHHC20 (A-4): sc-518217

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZDHHC20 (zinc finger, DHHC-type containing 20) is a 365 amino acid multi-pass membrane protein that contains one DHHC-type zinc finger and is thought to function as a palmitoyltransferase, catalyzing the transformation of palmitoyl-CoA and a cysteine-conjugated protein to an S-palmitoyl protein and free CoA. In response to DNA damage, ZDHHC20, which exists as multiple alternatively spliced isoforms, may be phosphorylated by ATM or ATR. The gene encoding ZDHHC20 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome.

REFERENCES

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2. Roth, A.F., Feng, Y., Chen, L. and Davis, N.G. 2002. The yeast DHHC cysteine-rich domain protein Akr1p is a palmitoyl transferase. *J. Cell Biol.* 159: 23-28.
3. Ohno, Y., Kihara, A., Sano, T. and Igarashi, Y. 2006. Intracellular localization and tissue-specific distribution of human and yeast DHHC cysteine-rich domain-containing proteins. *Biochim. Biophys. Acta* 1761: 474-483.
4. Mitchell, D.A., Vasudevan, A., Linder, M.E. and Deschenes, R.J. 2006. Protein palmitoylation by a family of DHHC protein S-acyltransferases. *J. Lipid Res.* 47: 1118-1127.
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CHROMOSOMAL LOCATION

Genetic locus: ZDHHC20 (human) mapping to 13q12.11; Zdhhc20 (mouse) mapping to 14 C3.

SOURCE

ZDHHC20 (A-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 87-108 of ZDHHC20 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 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.

RESEARCH USE

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

APPLICATIONS

ZDHHC20 (A-4) is recommended for detection of ZDHHC20 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 ZDHHC20 siRNA (h): sc-76954, ZDHHC20 siRNA (m): sc-155498, ZDHHC20 shRNA Plasmid (h): sc-76954-SH, ZDHHC20 shRNA Plasmid (m): sc-155498-SH, ZDHHC20 shRNA (h) Lentiviral Particles: sc-76954-V and ZDHHC20 shRNA (m) Lentiviral Particles: sc-155498-V.

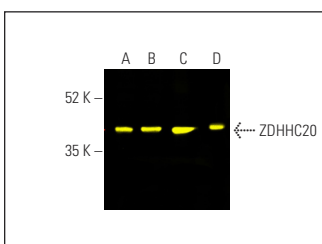
Molecular Weight of ZDHHC20: 42 kDa.

Positive Controls: EOC 20 whole cell lysate: sc-364187, C6 whole cell lysate: sc-364373 or mouse brain extract: sc-2253.

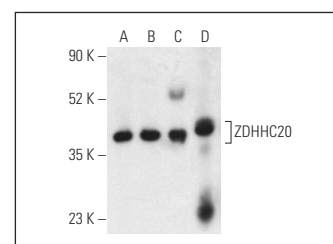
RECOMMENDED SUPPORT REAGENTS

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



ZDHHC20 (A-4): sc-518217. Fluorescent western blot analysis of ZDHHC20 expression in EOC 20 (A) and C6 (B) whole cell lysates and mouse brain (C) and rat brain (D) tissue extracts. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG Fc BP-CFL 488: sc-533653.



ZDHHC20 (A-4): sc-518217. Western blot analysis of ZDHHC20 expression in EOC 20 (A) and C6 (B) whole cell lysates and mouse brain (C) and rat brain (D) tissue extracts. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.

PROTOCOLS

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