

EEPDP1 (C-14): sc-138251

BACKGROUND

EEPDP1 (endonuclease/exonuclease/phosphatase family domain containing 1), also known as HSPC107, is a 569 amino acid protein that contains one HhH domain. A significant decrease in the relative transcriptional level of EEPDP1 is induced by long-term heat stress exposure. Conversely, EEPDP1 is up-regulated in bovine adipogenic processes related to intramuscular pre-adipocyte differentiation. Encoded by a gene that maps to human chromosome 7p14.2, EEPDP1 plays a role in DNA binding and repair. Chromosome 7 makes up about 5% of the human genome and contains 158 million bases encoding more than 1,000 genes. Osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome are associated with Chromosome 7.

REFERENCES

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2. Hillier, L.W., et al. 2003. The DNA sequence of human chromosome 7. *Nature* 424: 157-164.
3. Reiner, O., et al. 2006. Lissencephaly 1 linking to multiple diseases: mental retardation, neurodegeneration, schizophrenia, male sterility, and more. *Neuromolecular Med.* 8: 547-565.
4. Brezinová, J., et al. 2007. Structural aberrations of chromosome 7 revealed by a combination of molecular cytogenetic techniques in myeloid malignancies. *Cancer Genet. Cytogenet.* 173: 10-16.
5. Leone, G., et al. 2007. Therapy-related leukemia and myelodysplasia: susceptibility and incidence. *Haematologica* 92: 1389-1398.
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CHROMOSOMAL LOCATION

Genetic locus: EEPDP1 (human) mapping to 7p14.2; Eepd1 (mouse) mapping to 9 A4.

SOURCE

EEPDP1 (C-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of EEPDP1 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-138251 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-138251 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

EEPDP1 (C-14) is recommended for detection of EEPDP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EEPDP1 (C-14) is also recommended for detection of EEPDP1 in additional species, including equine, canine, bovine, porcine and avian.

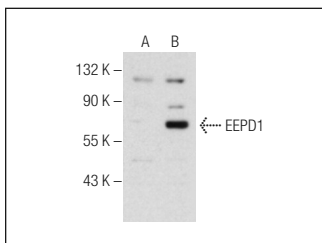
Suitable for use as control antibody for EEPDP1 siRNA (h): sc-89330, EEPDP1 siRNA (m): sc-143299, EEPDP1 shRNA Plasmid (h): sc-89330-SH, EEPDP1 shRNA Plasmid (m): sc-143299-SH, EEPDP1 shRNA (h) Lentiviral Particles: sc-89330-V and EEPDP1 shRNA (m) Lentiviral Particles: sc-143299-V.

EEPDP1 (C-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of EEPDP1: 62 kDa.

Positive Controls: EEPDP1 (h): 293T Lysate: sc-116976.

DATA



EEPDP1 (C-14): sc-138251. Western blot analysis of EEPDP1 expression in non-transfected: sc-117752 (A) and human EEPDP1 transfected: sc-116976 (B) 293T whole cell lysates.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
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Try **EEPDP1 (B-5): sc-398019** or **EEPDP1 (A-5): sc-398028**, our highly recommended monoclonal alternatives to EEPDP1 (C-14).