

BRD8 (m): 293T Lysate: sc-118843

BACKGROUND

BRD8 (bromodomain containing protein 8), also designated skeletal muscle abundant protein (SMAP or SMAP2) or Thyroid hormone receptor coactivating protein 120 kDa (p120 or TrCP120), is a 1,235 amino acid transcription regulation factor that contains two bromodomains and is expressed in adipose tissue, brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle. BRD8 mRNA is upregulated during neointima formation in a rat carotid endarterectomy model and may therefore be involved in the progression of atherosclerosis in aorta. BRD8 is a member of the NuA4 histone acetyltransferase complex, which may be responsible for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis and DNA repair.

REFERENCES

1. Nielsen, M.S., Petersen, C.M., Gliemann, J. and Madsen, P. 1996. Cloning and sequencing of a human cDNA encoding a putative transcription factor containing a bromodomain. *Biochim. Biophys. Acta* 1306: 14-16.
2. Monden, T., Wondisford, F.E. and Hollenberg, A.N. 1997. Isolation and characterization of a novel ligand-dependent thyroid hormone receptor-coactivating protein. *J. Biol. Chem.* 272: 29834-29841.
3. Monden, T., Kishi, M., Hosoya, T., Satoh, T., Wondisford, F.E., Hollenberg, A.N., Yamada, M. and Mori, M. 1999. p120 acts as a specific coactivator for 9-*cis*-retinoic acid receptor (RXR) on peroxisome proliferator-activated receptor- γ /RXR heterodimers. *Mol. Endocrinol.* 13: 1695-1703.
4. Nishimoto, S., Hamajima, Y., Toda, Y., Toyoda, H., Kitamura, K. and Komurasaki, T. 2002. Identification of a novel smooth muscle associated protein, SMAP2, upregulated during neointima formation in a rat carotid endarterectomy model. *Biochim. Biophys. Acta* 1576: 225-230.
5. Cai, Y., Jin, J., Tomomori-Sato, C., Sato, S., Sorokina, I., Parmely, T.J., Conaway, R.C. and Conaway, J.W. 2003. Identification of new subunits of the multiprotein mammalian TRRAP/TIP60-containing histone acetyltransferase complex. *J. Biol. Chem.* 278: 42733-42736.
6. Doyon, Y. and Côté, J. 2004. The highly conserved and multifunctional NuA4 HAT complex. *Curr. Opin. Genet. Dev.* 14: 147-154.
7. Doyon, Y., Selleck, W., Lane, W.S., Tan, S. and Côté, J. 2004. Structural and functional conservation of the NuA4 histone acetyltransferase complex from yeast to humans. *Mol. Cell. Biol.* 24: 1884-1896.

CHROMOSOMAL LOCATION

Genetic locus: Brd8 (mouse) mapping to 18 B1.

PRODUCT

BRD8 (m): 293T Lysate represents a lysate of mouse BRD8 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

BRD8 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive BRD8 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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.