

# MYBBP1A (F-25): sc-133800

## BACKGROUND

MYBBP1A (Myb binding protein (P160) 1a), also known as P160 or PAP2, is a 1,328 amino acid protein that localizes to both the nucleus and the cytoplasm and is thought to shuttle between these two subcellular compartments. Expressed ubiquitously, MYBBP1A interacts with sequence specific DNA binding proteins, such as c-Jun and c-Myb, and, via these interactions, is thought to activate or repress transcription, thereby mediating gene expression. Due to its role in transcriptional regulation, MYBBP1A may be involved in tumor transformation and metastasis. MYBBP1A exists as two alternatively spliced isoforms and shares 80% sequence identity with its mouse counterpart, suggesting a conserved role between species.

## REFERENCES

1. Favier, D. and Gonda, T.J. 1994. Detection of proteins that bind to the leucine zipper motif of c-Myb. *Oncogene* 9: 305-311.
2. Tavner, F.J., et al. 1998. Molecular cloning reveals that the p160 Myb-binding protein is a novel, predominantly nucleolar protein which may play a role in transactivation by Myb. *Mol. Cell. Biol.* 18: 989-1002.
3. Keough, R., et al. 1999. Molecular cloning and chromosomal mapping of the human homologue of Myb binding protein (P160) 1A (MYBBP1A) to 17p13.3. *Genomics* 62: 483-489.
4. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 604885. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Fan, M., et al. 2004. Sup-pression of mitochondrial respiration through recruitment of p160 Myb binding protein to PGC-1 $\alpha$ : modulation by p38 MAPK. *Genes Dev.* 18: 278-289.
6. Owen, H.R., et al. 2007. MYBBP1A is a novel repressor of NF $\kappa$ B. *J. Mol. Biol.* 366: 725-736.
7. Lu, Y., et al. 2008. Multiple genetic variants along candidate pathways influence plasma high-density lipoprotein cholesterol concentrations. *J. Lipid Res.* 49: 2582-2589.
8. Alazawi, D., et al. 2008. Ets-2 and p160 proteins collaborate to regulate c-Myc in endocrine resistant breast cancer. *Oncogene* 27: 3021-3031.

## CHROMOSOMAL LOCATION

Genetic locus: Mybbp1a (mouse) mapping to 11 B4.

## SOURCE

MYBBP1A (F-25) is an affinity purified rabbit polyclonal antibody raised against synthetic MYBBP1A peptide of mouse origin.

## PRODUCT

Each vial contains 50  $\mu$ g IgG in 500  $\mu$ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## RESEARCH USE

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

## APPLICATIONS

MYBBP1A (F-25) is recommended for detection of MYBBP1A of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 MYBBP1A siRNA (m): sc-149729, MYBBP1A shRNA Plasmid (m): sc-149729-SH and MYBBP1A shRNA (m) Lentiviral Particles: sc-149729-V.

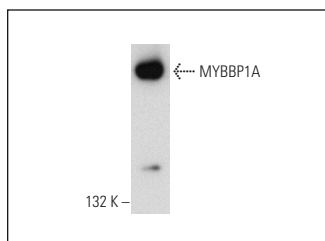
Molecular Weight of MYBBP1A: 160 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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



MYBBP1A (F-25): sc-133800. Western blot analysis of MYBBP1A expression in NIH/3T3 whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Acuña Sanhueza, G.A., et al. 2012. Opposing function of MYBBP1A in proliferation and migration of head and neck squamous cell carcinoma cells. *BMC Cancer* 12: 72.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.