



Myeov (C-17): sc-82961

BACKGROUND

Myeov (myeloma overexpressed), also known as OCIM (oncogene in multiple myeloma), is a 313 amino acid protein that is overexpressed in a variety of cancers and is thought to play a prominent role in tumor transformation and metastasis. The gene encoding Myeov maps to human chromosome 11, which comprises approximately 4% of human genomic DNA and is considered a gene and disease association-dense chromosome. The chromosome 11-encoded ATM gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. ATM mutation leads to the disorder known as ataxia telangiectasia. The blood disorders sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

REFERENCES

- Janssen, J.W., Imoto, I., Inoue, J., Shimada, Y., Ueda, M., Imamura, M., Bartram, C.R. and Inazawa, J. 2002. MYEOV, a gene at 11q13, is coamplified with CCND1, but epigenetically inactivated in a subset of esophageal squamous cell carcinomas. *J. Hum. Genet.* 47: 460-464.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605625. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Moss, A.C., Lawlor, G., Murray, D., Tighe, D., Madden, S.F., Mulligan, A.M., Keane, C.O., Brady, H.R., Doran, P.P. and MacMathuna, P. 2006. ETV4 and Myeov knockdown impairs colon cancer cell line proliferation and invasion. *Biochem. Biophys. Res. Commun.* 345: 216-221.
- Leyden, J., Murray, D., Moss, A., Arumuguma, M., Doyle, E., McEntee, G., O'Keane, C., Doran, P. and MacMathuna, P. 2006. NET1 and Myeov: computationally identified mediators of gastric cancer. *Br. J. Cancer* 94: 1204-1212.
- de Almeida, R.A., Heuser, T., Blaschke, R., Bartram, C.R. and Janssen, J.W. 2006. Control of Myeov protein synthesis by upstream open reading frames. *J. Biol. Chem.* 281: 695-704.
- Ataga, K.I., Cappellini, M.D. and Rachmilewitz, E.A. 2007. β -thalassaemia and sickle cell anaemia as paradigms of hypercoagulability. *Br. J. Haematol.* 139: 3-13.
- Berger, A.C., Salazar, G., Styers, M.L., Newell-Litwa, K.A., Werner, E., Maue, R.A., Corbett, A.H. and Faundez, V. 2007. The subcellular localization of the Niemann-Pick type C proteins depends on the adaptor complex AP-3. *J. Cell Sci.* 120: 3640-3652.

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.

CHROMOSOMAL LOCATION

Genetic locus: MYEOV (human) mapping to 11q13.2.

SOURCE

Myeov (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Myeov of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82961 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Myeov (C-17) is recommended for detection of Myeov of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Myeov siRNA (h): sc-75846, Myeov shRNA Plasmid (h): sc-75846-SH and Myeov shRNA (h) Lentiviral Particles: sc-75846-V.

Molecular Weight of Myeov: 33 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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