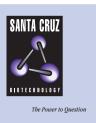
# SANTA CRUZ BIOTECHNOLOGY, INC.

# NBPF (Y-14): sc-82243



# BACKGROUND

NBPF1 (neuroblastoma breakpoint family, member 1), also known as AD2, NBG, AB13, AB14 or AB23, is a 1,214 amino acid protein that localizes to the cytoplasm and contains eight NBPF domains. Expressed in a variety of tissues, NBPF1 belongs to the neuroblastoma breakpoint family and is encoded by a gene which maps to human chromosome 1. Chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

# REFERENCES

- 1. Weise, A., Starke, H., Mrasek, K., Claussen, U. and Liehr, T. 2005. New insights into the evolution of chromosome 1. Cytogenet. Genome Res. 108: 217-222.
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- Marzin, Y., Jamet, D., Douet-Guilbert, N., Morel, F., Le Bris, M.J., Morice, P., Abgrall, J.F., Berthou, C. and De Braekeleer, M. 2006. Chromosome 1 abnormalities in multiple myeloma. Anticancer Res. 26: 953-959.
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- Vandepoele, K., Andries, V. and van Roy, F. 2009. The NBPF1 promoter has been recruited from the unrelated EVI5 gene before simian radiation. Mol. Biol. Evol. 26: 1321-1332.

### CHROMOSOMAL LOCATION

Genetic locus: NBPF1 (human) mapping to 1p36.13.

# SOURCE

NBPF (Y-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NBPF20 of human origin.

#### **STORAGE**

Store at 4° C, \*\*D0 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.

# PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82243 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

NBPF (Y-14) is recommended for detection of A broad range of NBPF family members 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 NBPF1 siRNA (h): sc-106281, NBPF1 shRNA Plasmid (h): sc-106281-SH and NBPF1 shRNA (h) Lentiviral Particles: sc-106281-V.

Molecular Weight of NBPF: 139 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) Immunofluo-rescence: 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.