**BACKGROUND**

nm23-H6, also known as NME6 (nucleoside diphosphate kinase 6), is a 186 amino acid protein that localizes to the mitochondrion and belongs to the NDK family of kinases. Expressed ubiquitously with highest expression in ovary, kidney, spleen, prostate and intestine, nm23-H6 uses magnesium as a cofactor to catalyze the ATP-dependent creation of nucleoside triphosphates and, via this catalytic activity, is thought to be involved in cell growth, cell cycle progression and apoptotic control. The gene encoding nm23-H6 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NME6 (human) mapping to 3p21.31; Nme6 (mouse) mapping to 9 F2.

**SOURCE**

nm23-H6 (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of nm23-H6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Blocking peptide available for competition studies, sc-82252 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

nm23-H6 (G-18) is recommended for detection of nm23-H6 of mouse, rat and 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).

nm23-H6 (G-18) is also recommended for detection of nm23-H6 in additional species, including equine, canine, bovine, porcine and avian. Suitable for use as control antibody for nm23-H6 siRNA (h): sc-75933, nm23-H6 siRNA (m): sc-75934, nm23-H6 shRNA Plasmid (h): sc-75933-SH, nm23-H6 shRNA Plasmid (m): sc-75934-SH, nm23-H6 shRNA (h) Lentiviral Particles: sc-75933-V and nm23-H6 shRNA (m) Lentiviral Particles: sc-75934-V.

Molecular Weight of nm23-H6: 21 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.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.