

# HEMK2 (N-18): sc-83304



The Power to Question

## BACKGROUND

HEMK2 (HemK methyltransferase family member 2), also known as N6AMT1 (N-6 adenine-specific DNA methyltransferase 1), MTQ2 or N6AMT, is a 214 amino acid protein that belongs to the methyltransferase superfamily and exists as multiple alternatively spliced isoforms. The gene encoding HEMK2 maps to human chromosome 21, which houses approximately 300 genes and comprises nearly 1.5% of the human genome. Chromosome 21-associated disorders include Alzheimer's Disease, amyotrophic lateral sclerosis and, most notably, Down Syndrome (also known as trisomy 21).

## REFERENCES

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- Robakis, N.K. 2006. The discovery and mapping to chromosome 21 of the Alzheimer's amyloid gene: history revised. *J. Alzheimers Dis.* 10: 453-455.
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## CHROMOSOMAL LOCATION

Genetic locus: N6AMT1 (human) mapping to 21q21.3; N6amt1 (mouse) mapping to 16 C3.3.

## SOURCE

HEMK2 (N-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of HEMK2 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83304 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

HEMK2 (N-18) is recommended for detection of HEMK2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

HEMK2 (N-18) is also recommended for detection of HEMK2 in additional species, including canine, bovine and porcine.

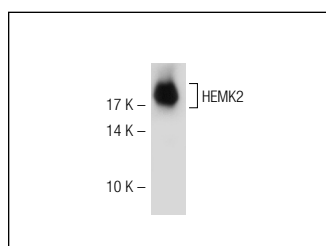
Suitable for use as control antibody for HEMK2 siRNA (h): sc-91423, HEMK2 siRNA (m): sc-145938, HEMK2 shRNA Plasmid (h): sc-91423-SH, HEMK2 shRNA Plasmid (m): sc-145938-SH, HEMK2 shRNA (h) Lentiviral Particles: sc-91423-V and HEMK2 shRNA (m) Lentiviral Particles: sc-145938-V.

Molecular Weight of HEMK2: 23 kDa.

## 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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



HEMK2 (N-18): sc-83304. Western blot analysis of HEMK2 expression in mouse brain tissue extract.

## RESEARCH USE

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

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Try **HEMK2 (1C4): sc-517120**, our highly recommended monoclonal alternative to HEMK2 (N-18).