

eIF3K (N-14): sc-79476

BACKGROUND

eIF3K (Eukaryotic translation initiation factor 3 subunit K, muscle-specific gene M9 protein) is a widely expressed translation initiation factor that belongs to the eIF3 subunit K family. Translation initiation factor 3 (eIF3) is a multisubunit complex containing at least 12 subunits. eIF3 binds to the 40S ribosomal subunit, promotes the binding of methionyl-tRNAⁱ and mRNA, and interacts with several other initiation factors to form the 40S initiation complex. eIF3K is the smallest subunit of eIF3 and it interacts with several other subunits of eIF3 and the 40S ribosomal subunit. eIF3K is conserved among high eukaryotes, including mammals, insects, and plants, and it is ubiquitously expressed in human tissues. eIF3K is distributed both in nucleus and cytoplasm and colocalizes with cyclin D3, a regulatory subunit of cyclin-dependent kinase 4 (Cdk4).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EIF3K (human) mapping to 19q13.2; Eif3k (mouse) mapping to 7 A3.

SOURCE

eIF3K (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of eIF3K 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-79476 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

eIF3K (N-14) is recommended for detection of eIF3K 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).

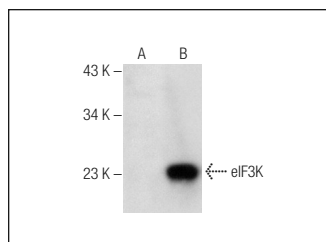
eIF3K (N-14) is also recommended for detection of eIF3K in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for eIF3K siRNA (h): sc-77250, eIF3K siRNA (m): sc-77251, eIF3K shRNA Plasmid (h): sc-77250-SH, eIF3K shRNA Plasmid (m): sc-77251-SH, eIF3K shRNA (h) Lentiviral Particles: sc-77250-V and eIF3K shRNA (m) Lentiviral Particles: sc-77251-V.

Molecular Weight of eIF3K: 25 kDa.

Positive Controls: eIF3K (m): 293T Lysate: sc-126780 or IMR-32 nuclear extract: sc-2148.

DATA



eIF3K (N-14): sc-79476. Western blot analysis of eIF3K expression in non-transfected: sc-117752 (A) and mouse eIF3K transfected: sc-126780 (B) 293T whole cell lysates.

STORAGE

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

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.



Try **eIF3K (F-4): sc-393234** or **eIF3K (2313C2a): sc-81262**, our highly recommended monoclonal alternatives to eIF3K (N-14).