SANTA CRUZ BIOTECHNOLOGY, INC.

elF3K (Y-20): sc-79477



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 (Y-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of eIF3K 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.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79477 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

eIF3K (Y-20) 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), 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 (Y-20) 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 elF3K: 25 kDa.

Positive Controls: IMR-32 nuclear extract: sc-2148.

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.

PROTOCOLS

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

MONOS Satisfation Guaranteed

Try eIF3K (F-4): sc-393234 or eIF3K (2313C2a): sc-81262, our highly recommended monoclonal alternatives to eIF3K (Y-20).