

# Ethanolamine kinase (P-20): sc-74628

## BACKGROUND

Ethanolamine kinase (ETNK1) is a 452 amino acid member of the choline/ethanolamine kinase family. Localized to the cytoplasm, Ethanolamine kinase catalyzes the first step in phosphatidylethanolamine (PtdEtn) biosynthesis via the CDP-Etn pathway. Ethanolamine kinase is specific for ethanolamine and exhibits negligible kinase activity on choline. Expressed in kidney, liver, placenta, heart, leukocyte, ovary and testis, Ethanolamine kinase exists as several isoforms as a result of alternative splicing events. The gene encoding Ethanolamine kinase maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ETNK1 (human) mapping to 12p12.1; Etnk1 (mouse) mapping to 6 G3.

## SOURCE

Ethanolamine kinase (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ethanolamine kinase 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-74628 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Ethanolamine kinase (P-20) is recommended for detection of Ethanolamine kinase 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).

Ethanolamine kinase (P-20) is also recommended for detection of Ethanolamine kinase in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Ethanolamine kinase siRNA (h): sc-77291, Ethanolamine kinase siRNA (m): sc-77292, Ethanolamine kinase shRNA Plasmid (h): sc-77291-SH, Ethanolamine kinase shRNA Plasmid (m): sc-77292-SH, Ethanolamine kinase shRNA (h) Lentiviral Particles: sc-77291-V and Ethanolamine kinase shRNA (m) Lentiviral Particles: sc-77292-V.

Molecular Weight of Ethanolamine kinase: 60 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.