

EF-1 δ (T-19): sc-68485

BACKGROUND

EF-1 (elongation factor-1) is a multi-protein complex that is comprised of α , β , γ and δ subunits, all of which work together to ensure the delivery of amino-acyl-tRNAs to the ribosome, thereby elongating mRNA. EF-1 δ , also known as EEF1D, is a 281 amino acid subunit of the EF-1 complex. Functioning as a guanine nucleotide exchange factor, EF-1 δ stimulates the exchange of EF-1 α -bound GDP for GTP. Additionally, EF-1 δ is thought to interact with HIV-1 Tat and may repress host-cell mRNA transcription. Overexpression of EF-1 δ is associated with oesophageal carcinoma and may adversely affect the outcome of medulloblastomas, suggesting that the role that EF-1 δ plays in transcriptional elongation is important for the tight control and regulation of the cell cycle. Multiple isoforms of EF-1 δ exist due to alternative splicing events.

REFERENCES

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4. Ogawa, K., et al. 2004. Clinical significance of elongation factor-1 δ mRNA expression in oesophageal carcinoma. *Br. J. Cancer* 91: 282-286.
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8. Yang, S., et al. 2007. BMP-6 promotes E-cadherin expression through repressing EF-1 δ in breast cancer cells. *BMC Cancer* 7: 211.
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CHROMOSOMAL LOCATION

Genetic locus: EEF1D (human) mapping to 8q24.3; Eef1d (mouse) mapping to 15 D3.

SOURCE

EF-1 δ (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of EF-1 δ of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68485 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-68485 X, 200 μ g/0.1 ml.

APPLICATIONS

EF-1 δ (T-19) is recommended for detection of EF-1 δ 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).

EF-1 δ (T-19) is also recommended for detection of EF-1 δ in additional species, including equine and porcine.

Suitable for use as control antibody for EF-1 δ siRNA (h): sc-77235, EF-1 δ siRNA (m): sc-77237, EF-1 δ shRNA Plasmid (h): sc-77235-SH, EF-1 δ shRNA Plasmid (m): sc-77237-SH, EF-1 δ shRNA (h) Lentiviral Particles: sc-77235-V and EF-1 δ shRNA (m) Lentiviral Particles: sc-77237-V.

EF-1 δ (T-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of EF-1 δ : 31 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.

PROTOCOLS

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