

DUSP26 (C-15): sc-79458

BACKGROUND

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways, which are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DUSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DUSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. DUSP26, also designated LDP4, MKP8, NATA1 and SKRP3, is ubiquitously expressed in brain except in the hippocampus. DUSP26 dephosphorylates p38 thereby inhibiting p38-mediated apoptosis in anaplastic thyroid cancer cells. Downregulation of DUSP26 may also contribute to malignant phenotypes of glioma.

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CHROMOSOMAL LOCATION

Genetic locus: DUSP26 (human) mapping to 8p12; Dusp26 (mouse) mapping to 8 A3.

SOURCE

DUSP26 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DUSP26 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-79458 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DUSP26 (C-15) is recommended for detection of DUSP26 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).

DUSP26 (C-15) is also recommended for detection of DUSP26 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for DUSP26 siRNA (h): sc-77204, DUSP26 siRNA (m): sc-77205, DUSP26 shRNA Plasmid (h): sc-77204-SH, DUSP26 shRNA Plasmid (m): sc-77205-SH, DUSP26 shRNA (h) Lentiviral Particles: sc-77204-V and DUSP26 shRNA (m) Lentiviral Particles: sc-77205-V.

Molecular Weight of DUSP26 isoform 1/2: 24/10 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 or our catalog for detailed protocols and support products.