DDEFL1 (G-12): sc-376479



The Power to Question

BACKGROUND

DDEFL1 (development and differentiation enhancing factor-like 1), also known as ACAP4, UPLC1, CENTB6 or ASAP3 (ARFGAP with SH3 domain, ankyrin repeat and PH domain 3), is a 903 amino acid cytoplasmic protein belonging to the subfamily of ADP-ribosylation factor (ARF) GTPase-activating proteins. DDEFL1 contains two ANK repeats, an ARFGAP domain and a PH domain, and is expressed in lung, liver, blood leukocytes and primary hepatocarcinoma. The ARFGAP domain of DDEFL1 catalyzes the hydrolysis of GTP bound to ARF proteins. DDEFL1 promotes cell differentiation and migration, and has been implicated in the pathogenesis of hepatocellular carcinoma. Existing as two isoforms produced by alternative splicing events, DDEFL1 is encoded by a gene located on human chromosome 1p36.12. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Asap3 (mouse) mapping to 4 D3.

SOURCE

DDEFL1 (G-12) is a mouse monoclonal antibody raised against amino acids 711-904 mapping at the C-terminus of DDEFL1 of mouse origin.

PRODUCT

Each vial contains 200 μg lgG_1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

DDEFL1 (G-12) is recommended for detection of DDEFL1 of mouse origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for DDEFL1 siRNA (m): sc-142915, DDEFL1 shRNA Plasmid (m): sc-142915-SH and DDEFL1 shRNA (m) Lentiviral Particles: sc-142915-V.

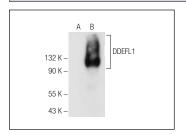
Molecular Weight of DDEFL1: 99 kDa.

Positive Controls: DDEFL1 (m): 293T Lysate: sc-125230.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



DDEFL1 (G-12): sc-376479. Western blot analysis of DDEFL1 expression in non-transfected: sc-117752 (A) and mouse DDEFL1 transfected: sc-125230 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

 Marchetti, L., et al. 2022. ACKR1 favors transcellular over paracellular T-cell diapedesis across the blood-brain barrier in neuroinflammation in vitro. Eur. J. Immunol. 52: 161-177.

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.

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