A1Up (M398): sc-136146



The Power to Question

BACKGROUND

A1Up (Ataxin-1 ubiquitin-like-interacting protein), also known as UBQLN4 (ubiquilin 4), C1orf6 or UBIN, is a 601 amino acid protein that localizes to both the cytoplasm and the nucleus and is thought to associate with the endoplasmic reticulum (ER). Expressed at high levels in kidney, pancreas, heart, brain and skeletal muscle and at lower levels in liver, lung and placenta, A1Up functions as a homodimer that binds to signal sequences on proteins that are targeted to the ER. Additionally, A1Up is thought to link Ataxin-1 with ubiquitin/proteasome pathways, possibly assisting in the Ataxin-1-associated formation of multimeric protein complexes within the nucleus. A1Up contains one ubiquitin-like domain and one UBA domain and may be phosphorylated in response to DNA damage.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: UBQLN4 (human) mapping to 1q22; Ubqln4 (mouse) mapping to 3 F1.

SOURCE

A1Up (M398) is a mouse monoclonal antibody raised against a recombinant protein corresponding to a middle region between the UbL and UBA domains of A1Up of human 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.

RESEARCH USE

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

APPLICATIONS

A1Up (M398) is recommended for detection of A1Up (middle region between UbL and UBA domain) of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for A1Up siRNA (h): sc-78764, A1Up siRNA (m): sc-140614, A1Up shRNA Plasmid (h): sc-78764-SH, A1Up shRNA Plasmid (m): sc-140614-SH, A1Up shRNA (h) Lentiviral Particles: sc-78764-V and A1Up shRNA (m) Lentiviral Particles: sc-140614-V.

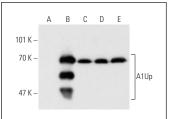
Molecular Weight of A1Up: 64-75 kDa.

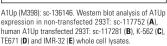
Positive Controls: A1Up (h2): 293T Lysate: sc-117281, K-562 whole cell lysate: sc-2203 or COLO 205 whole cell lysate: sc-364177.

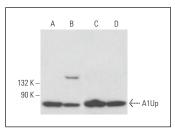
RECOMMENDED SUPPORT REAGENTS

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







A1Up (M398): sc-136146. Western blot analysis of A1Up expression in K-562 ($\bf A$), C0LO 205 ($\bf B$), c4 ($\bf C$) and Neuro-2A ($\bf D$) whole cell lysates.

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 for detailed protocols and support products.