A1Up (A333): sc-136145

**BACKGROUND**

A1Up (Ataxin-1 ubiquitin-like-interacting protein), also known as UBQLN4 (ubiquitin 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**


**CHROMOSOMAL LOCATION**

Genetic locus: UBQLN4 (human) mapping to 1q22; UBqln4 (mouse) mapping to 3 F1.

**SOURCE**

A1Up (A333) is a mouse monoclonal antibody raised against a recombinant protein corresponding to the UBA domain of A1Up of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. A1Up (A333) is available conjugated to agarose (sc-136145 AC), 500 µg/0.25 ml agarose in 1 ml, for IF; to HRP (sc-136145 HRP), 200 µg/ml, for WB, IHCp and ELISA; to either phycocyanin (sc-136145 PE), fluorescein (sc-136145 FITC), Alexa Fluor® 488 (sc-136145 AF488), Alexa Fluor® 546 (sc-136145 AF546), Alexa Fluor® 594 (sc-136145 AF594) or Alexa Fluor® 647 (sc-136145 AF647), 200 µg/ml, for WB (RGB), IF, IHCp and FCM; and to either Alexa Fluor® 680 (sc-136145 AF680) or Alexa Fluor® 790 (sc-136145 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM. Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**


Molecular Weight of A1Up: 64-75 kDa.

Positive Controls: A1Up (h2): 293T Lysate: sc-117281, HeLa whole cell lysate: sc-2200 or TE671 cell lysate: sc-2416.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

A1Up (A333): sc-136145. Western blot analysis of A1Up expression in non-transfected 293T: sc-117752 (A), human A1Up transfected 293T: sc-117281 (B), HeLa (C), K-562 (D), TE671 (E) and NIH-3T3 (F) whole cell lysates.

A1Up (A333): sc-136145. Western blot analysis of A1Up expression in SH-SY5Y (A), EOC 20 (B) and D6 (C) whole cell lysates and mouse brain tissue extract (D).

**SELECT PRODUCT CITATIONS**


**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.