

UBE2L3 (B-11): sc-390032

BACKGROUND

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. The first step requires the ATP-dependent activation of the Ub C-terminus and the assembly of multi-Ub chains by the Ub-activating enzyme known as the E1 component. The Ub chain is then conjugated to the Ub-conjugating enzyme (E2) to generate an intermediate Ub-E2 complex. The Ub-ligase (E3) then catalyzes the transfer of Ub from E2 to the appropriate protein substrate. UBE2E1 and UBE2L3, also designated UBCH6 and UBCH7 respectively in human, are E2 conjugating enzymes that interact with various proteins. Specifically, UBE2E1 interacts with the tumor suppressor protein TSSC5. UBE2L3 has been shown to mediate c-Fos degradation, NF κ B maturation, human papilloma virus-mediated p53 and Myc protein degradation.

CHROMOSOMAL LOCATION

Genetic locus: UBE2L3 (human) mapping to 22q11.21; Ube2l3 (mouse) mapping to 16 A3.

SOURCE

UBE2L3 (B-11) is a mouse monoclonal antibody raised against amino acids 1-62 mapping at the N-terminus of UBE2L3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

UBE2L3 (B-11) is available conjugated to agarose (sc-390032 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390032 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390032 PE), fluorescein (sc-390032 FITC), Alexa Fluor[®] 488 (sc-390032 AF488), Alexa Fluor[®] 546 (sc-390032 AF546), Alexa Fluor[®] 594 (sc-390032 AF594) or Alexa Fluor[®] 647 (sc-390032 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-390032 AF680) or Alexa Fluor[®] 790 (sc-390032 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

UBE2L3 (B-11) is recommended for detection of UBE2L3 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

UBE2L3 (B-11) is also recommended for detection of UBE2L3 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for UBE2L3 siRNA (h): sc-61746, UBE2L3 siRNA (m): sc-61747, UBE2L3 shRNA Plasmid (h): sc-61746-SH, UBE2L3 shRNA Plasmid (m): sc-61747-SH, UBE2L3 shRNA (h) Lentiviral Particles: sc-61746-V and UBE2L3 shRNA (m) Lentiviral Particles: sc-61747-V.

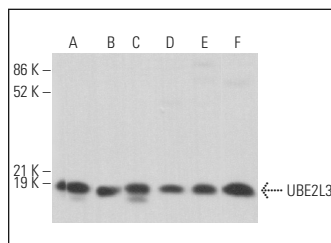
Molecular Weight of UBE2L3: 17 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

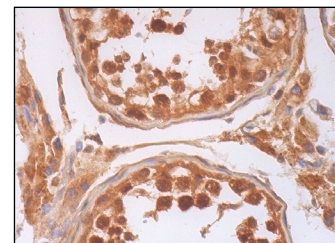
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] 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-IgG κ BP-FITC: sc-516140 or m-IgG 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. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



UBE2L3 (B-11): sc-390032. Western blot analysis of UBE2L3 expression in HeLa (A) and F9 (B) whole cell lysates and human testis (C), human brain (D), mouse brain (E) and rat testis (F) tissue extracts.



UBE2L3 (B-11): sc-390032. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and nuclear staining of cells in seminiferous ducts and cytoplasmic staining of Leydig cells.

SELECT PRODUCT CITATIONS

- Gritsenko, A., et al. 2020. Priming is dispensable for NLRP3 inflammasome activation in human monocytes *in vitro*. *Front. Immunol.* 11: 565924.

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 for detailed protocols and support products.

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