

EAP30 (C-11): sc-390747

BACKGROUND

EAP30 (ELL-associated protein of 30 kDa), also known as SNF8, Dot3 or VPS22, is a 258 amino acid protein that localizes to both the nucleus and the cytoplasm and is a member of the SNF8 family of vacuolar sorting proteins. Expressed as two alternatively spliced isoforms, EAP30 is a component of the multi-protein ESCRT-II complex that is involved in the formation of multivesicular bodies (MVBs) and in the sorting of endosomal cargo proteins within MVBs. In addition to its role in the formation and maintenance of MVBs, the ESCRT-II complex plays a role in targeting proteins to the lysosome for degradation and is also thought to repress the activity of RNA polymerase II (Pol II), thereby regulating transcription. As a member of the ESCRT-II complex, EAP30 is involved in MVB pathways and transcriptional regulation events.

CHROMOSOMAL LOCATION

Genetic locus: SNF8 (human) mapping to 17q21.32; Snf8 (mouse) mapping to 11 D.

SOURCE

EAP30 (C-11) is a mouse monoclonal antibody raised against amino acids 1-258 representing full length EAP30 of human origin.

PRODUCT

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

EAP30 (C-11) is available conjugated to agarose (sc-390747 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390747 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390747 PE), fluorescein (sc-390747 FITC), Alexa Fluor® 488 (sc-390747 AF488), Alexa Fluor® 546 (sc-390747 AF546), Alexa Fluor® 594 (sc-390747 AF594) or Alexa Fluor® 647 (sc-390747 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390747 AF680) or Alexa Fluor® 790 (sc-390747 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

RESEARCH USE

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

APPLICATIONS

EAP30 (C-11) is recommended for detection of EAP30 of mouse, rat and human 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 EAP30 siRNA (h): sc-77279, EAP30 siRNA (m): sc-77280, EAP30 shRNA Plasmid (h): sc-77279-SH, EAP30 shRNA Plasmid (m): sc-77280-SH, EAP30 shRNA (h) Lentiviral Particles: sc-77279-V and EAP30 shRNA (m) Lentiviral Particles: sc-77280-V.

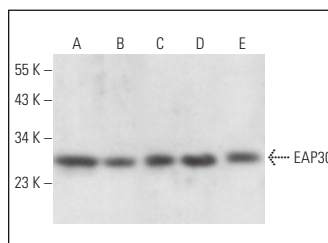
Molecular Weight of EAP30: 30 kDa.

Positive Controls: Neuro-2A whole cell lysate: sc-364185, HeLa whole cell lysate: sc-2200 or C2C12 whole cell lysate: sc-364188.

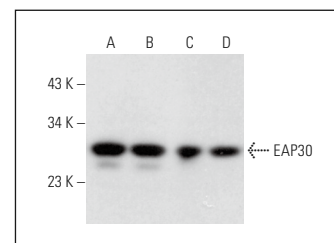
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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



EAP30 (C-11): sc-390747. Western blot analysis of EAP30 expression in HeLa (A), MCF7 (B), A-673 (C), EOC 20 (D) and WI-38 (E) whole cell lysates.



EAP30 (C-11): sc-390747. Western blot analysis of EAP30 expression in Caco-2 (A), IMR-32 (B), Neuro-2A (C) and C2C12 (D) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Hammerling, B.C., et al. 2017. A Rab5 endosomal pathway mediates Parkin-dependent mitochondrial clearance. *Nat. Commun.* 8: 14050.
2. Larios, J., et al. 2020. ALIX- and ESCRT-III-dependent sorting of tetraspanins to exosomes. *J. Cell Biol.* 219: e201904113.
3. Zhang, W., et al. 2021. A conserved ubiquitin- and ESCRT-dependent pathway internalizes human lysosomal membrane proteins for degradation. *PLoS Biol.* 19: e3001361.
4. Fernbach, S., et al. 2022. Restriction factor screening identifies RABGAP1L-mediated disruption of endocytosis as a host antiviral defense. *Cell Rep.* 38: 110549.

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.

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