

EAP30 (LN-7): sc-100892

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 multi-vesicular 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNF8 (human) mapping to 17q21.32.

RESEARCH USE

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

SOURCE

EAP30 (LN-7) is a mouse monoclonal antibody raised against recombinant EAP30 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

EAP30 (LN-7) is recommended for detection of EAP30 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] 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 shRNA Plasmid (h): sc-77279-SH and EAP30 shRNA (h) Lentiviral Particles: sc-77279-V.

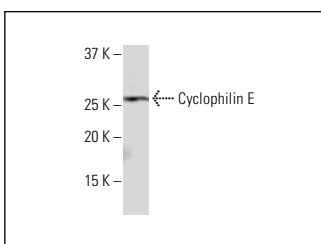
Molecular Weight of EAP30: 30 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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).

DATA



Cyclophilin E (9E18): sc-100700. Western blot analysis of Cyclophilin E expression in HeLa nuclear extract.

SELECT PRODUCT CITATIONS

- Romano, R., Rivellini, C., De Luca, M., Tonlorenzi, R., Beli, R., Manganelli, F., Nolano, M., Santoro, L., Eskelinen, E.L., Previtali, S.C. and Bucci, C. 2021. Alteration of the late endocytic pathway in Charcot-Marie-Tooth type 2B disease. *Cell. Mol. Life Sci.* 78: 351-372.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.