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NUDT10 (h): 293T Lysate: sc-115943

BACKGROUND

NUDT10 (nudix (nucleoside diphosphate linked moiety X)-type motif 10), also known as APS2 (Ap6A hydrolase 2) or DIPP3 α (diphosphoinositol polyphosphate phosphohydrolase 3 α), is a member of the Nudix hydrolase family of pyrophosphatases. Nudix hydrolases contain a characteristic nudix domain and are responsible for catalyzing the hydrolysis of nucleoside diphosphate derivatives. NUDT10 functions as a manganese-dependent polyphosphate phosphohydrolase with an optimum pH of 8.5. NUDT10 specifically metabolizes diadenosine-polyphosphates and, to a lesser extent, diphosphoinositol polyphosphates. Localizing to the cytoplasm, NUDT10 is predominantly expressed in brain and liver tissues, but is also found in prostate, testis, ovary, kidney, pancreas, placenta, spleen, lung and heart. NUDT10 is very closely related to NUDT11; the two proteins differ from one another by only one amino acid.

REFERENCES

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6. Jung, J., et al. 2007. Overexpression, crystallization and preliminary X-ray crystallographic analysis of Nudix hydrolase Orf141 from *Escherichia coli* K-1. *Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun.* 63: 812-815.
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CHROMOSOMAL LOCATION

Genetic locus: NUDT10 (human) mapping to Xp11.22.

PRODUCT

NUDT10 (h): 293T Lysate represents a lysate of human NUDT10 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

NUDT10 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive NUDT10 antibodies. Recommended use: 10-20 μ l per lane.

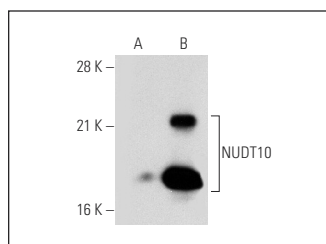
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NUDT10 (4B7): sc-100571 is recommended as a positive control antibody for Western Blot analysis of enhanced human NUDT10 expression in NUDT10 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



NUDT10 (4B7): sc-100571. Western blot analysis of NUDT10 expression in non-transfected: sc-117752 (A) and human NUDT10 transfected: sc-115943 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.