

NUDT10/11 (C-14): sc-131639

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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CHROMOSOMAL LOCATION

Genetic locus: NUDT10, NUDT11 (human) mapping to Xp11.22.

SOURCE

NUDT10/11 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of NUDT11 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-131639 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NUDT10/11 (C-14) is recommended for detection of NUDT10 and NUDT11 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Molecular Weight of NUDT10/11: 19 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.



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Try **NUDT3/4/10/11 (B-8): sc-398923** or **NUDT10 (4B7): sc-100571**, our highly recommended monoclonal alternatives to NUDT10/11 (C-14).