BACKGROUND
NUDT21 (nudix (nucleoside diphosphate linked moiety X)-type motif 21), also known as CPSF5 (cleavage and polyadenylation specificity factor subunit 5) or CFIm25 (cleavage and polyadenylation specificity factor 25 kDa subunit), 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. NUDT21 localizes to the paraspeckles and forms a heterodimer with CPSF6 or CPSF7 to comprise the CFIm (mammalian cleavage factor I) complex. NUDT21 is the smaller subunit of the complex and is present in all heterodimer combinations. CFIm plays an important role in pre-mRNA 3' cleavage and polyadenylation processing.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: NUDT21 (human) mapping to 16q12.2; Nudt21 (mouse) mapping to 8 C5.

SOURCE
NUDT21 (2203C3) is a mouse monoclonal antibody raised against a recombinant protein corresponding to the N-terminal region of NUDT21 of human origin.

PRODUCT
Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

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

APPLICATIONS
NUDT21 (2203C3) is recommended for detection of NUDT21 of mouse, rat and 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 flow cytometry (1 µg per 1 x 10⁶ cells). Suitable for use as control antibody for NUDT21 siRNA (h): sc-93336, NUDT21 siRNA (m): sc-77406, NUDT21 shRNA Plasmid (h): sc-93336-SH, NUDT21 shRNA Plasmid (m): sc-77406-SH, NUDT21 shRNA (h) Lentiviral Particles: sc-93336-V and NUDT21 shRNA (m) Lentiviral Particles: sc-77406-V.

Molecular Weight of NUDT21: 25 kDa.
Positive Controls: RT-4 whole cell lysate: sc-364257, Hep G2 cell lysate: sc-2227 or A-431 whole cell lysate: sc-2221.

DATA
![Western blot analysis of NUDT21 expression in RT-4 (A), U-251-MG (B) and NIH/3T3 (C) whole cell lysates.](image1)

![Western blot analysis of NUDT21 expression in Hep G2 (A) and A-431 (B) whole cell lysates.](image2)

SELECT PRODUCT CITATIONS

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

PROTOCOLS
See our website at www.scbt.com for detailed protocols and support products.