

For Research Use Only

NUDT5 Polyclonal antibody

Catalog Number: 27004-1-AP **1 Publications**



Basic Information

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|---|--|--|
| Catalog Number: 27004-1-AP | GenBank Accession Number: BC000025 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 600 ug/ml by Nanodrop; | GeneID (NCBI): 11164 | Recommended Dilutions: WB 1:2000-1:12000 IHC 1:50-1:500 IF/ICC 1:200-1:800 |
| Source: Rabbit | UNIPROT ID: Q9UJK9 | |
| Isotype: IgG | Full Name: nudix (nucleoside diphosphate linked moiety X)-type motif 5 | |
| Immunogen Catalog Number: AG25485 | Calculated MW: 24 kDa | |
| | Observed MW: 35 kDa | |

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, L02 cells, MCF-7 cells, MDA-MB-231 cells, T-47D cells

IHC : mouse liver tissue,

IF/ICC : HeLa cells,

Background Information

NUDT5 (NUDIX hydrolase type 5), also called NUDIX5, is a member of the nudix hydrolase family which eliminate toxic nucleotide derivatives from the cell. NUDT5 expression can affect chromosome remodeling, involved in cell adhesion, cancer stem cell maintenance and epithelial to mesenchyme transition in breast cancer cells. In addition, the high expression of NUDT5 is probably involved in the poor prognosis of breast cancer, which could be a prognostic factor and potential target in the diagnosis and treatment of breast cancer (PMID: 33571243). This NUDT5 protein can be detected with a molecular weight of 35 kDa (PMID: 33096144).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------------|-----------|-------------------|-------------|
| Yoshihiro Fujikawa | 38738661 | Nucleic Acids Res | |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

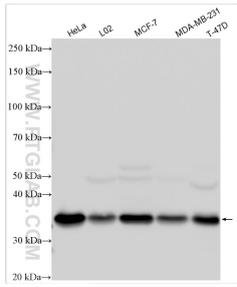
For technical support and original validation data for this product please contact:

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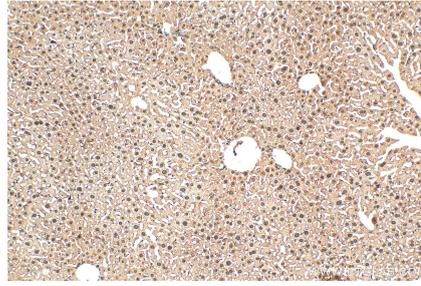
E: proteintech@ptglab.com
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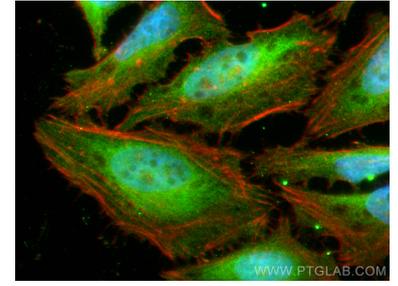
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27004-1-AP (NUDT5 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27004-1-AP (NUDT5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NUDT5 antibody (27004-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).