

DATASHEET
NUDT15 Rabbit Polyclonal Antibody
CAT. NO. APA13271
KEY FEATURES

Target	NUDT15	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Catalyzes the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP. Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives. Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in vitro, but the specificity and efficiency towards these substrates are low. Therefore, the potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively damaged forms of nucleosides to prevent their incorporation into DNA, is unclear. Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs. May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to NUDT15
Specificity	Recognizes endogenous levels of NUDT15 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human NUDT15
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 18 kD; Observed: 19 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	MTH2; Probable 8-oxo-dGTP diphosphatase NUDT15; 8-oxo-dGTPase NUDT15; 7,8-dihydro-8-oxoguanine-triphosphatase NUDT15; MutT homolog 2; MTH2; Nucleoside diphosphate-linked moiety X motif 15; Nudix motif 15
Gene Symbol	NUDT15
Entrez Gene	55270(Human)
SwissProt	Q9NV35(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

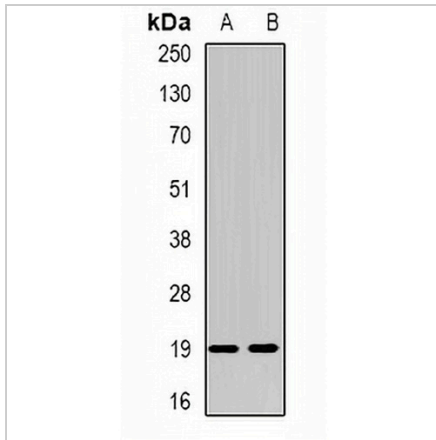
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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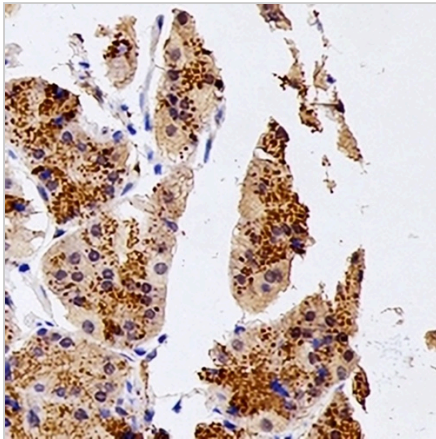
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DATA



Western blot analysis of NUDT15 expression in HT29 (A), SW480 (B) whole cell lysates. (Predicted band size: 18 kD; Observed band size: 19 kD)



Immunohistochemical analysis of NUDT15 staining in human stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.