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Datasheet for ABIN7143533
anti-NUDT5 antibody (AA 34-166) (HRP)

Overview

Quantity:	100 µg
Target:	NUDT5
Binding Specificity:	AA 34-166
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUDT5 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human ADP-sugar pyrophosphatase protein (34-166AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NUDT5
Alternative Name:	NUDT5 (NUDT5 Products)
Background:	Background: Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate (PubMed:27257257).

Target Details

In absence of diphosphate, hydrolyzes with similar activities various modified nucleoside diphosphates such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP (PubMed:10567213, PubMed:10722730, PubMed:19699693, PubMed:21389046, PubMed:17052728). Can also hydrolyze other nucleotide sugars with low activity (PubMed:19699693, PubMed:21389046). In presence of diphosphate, mediates the synthesis of ATP in the nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate. Nuclear ATP synthesis takes place when dephosphorylated at Thr-45 (PubMed:27257257). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed:27257257). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity).

Aliases: ADP sugar pyrophosphatase antibody, ADP-sugar pyrophosphatase antibody, hYSAH 1 antibody, hYSAH1 antibody, Nucleoside diphosphate linked moiety X motif 5 antibody, Nucleoside diphosphate linked moiety X type motif 5 antibody, Nucleoside diphosphate-linked moiety X motif 5 antibody, Nudix (nucleoside diphosphate linked moiety X) type motif 5 antibody, Nudix motif 5 antibody, Nudix type motif 5 antibody, NUDT 5 antibody, Nudt5 antibody, NUDT5_HUMAN antibody, YSA1 antibody, YSA1H antibody

UniProt: [Q9UKK9](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.