

DATASHEET

NM23-H3 Rabbit Polyclonal Antibody

CAT. NO. APA16300

KEY FEATURES

Target	NM23-H3	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	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 transfer of a gamma-phosphoryl group from a nucleoside triphosphate, mainly ATP, to a nucleoside diphosphate via a ping-pong mechanism involving a phosphohistidine intermediate, therefore contributing to the nucleoside triphosphate homeostasis. In vitro, can also use other phosphate donors such as UTP and GTP. Independently of its nucleoside diphosphate kinase activity, involved in mitochondrial membrane tethering, a prerequisite for fusion through direct membrane-binding and hexamerization. Involved in DNA repair of both single- and double-stranded breaks by associating with the ribonucleotide reductase (RNR) complex via interaction with the histone acetyltransferase KAT5, facilitating recruitment to DNA damage sites independently of its kinase activity.

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 - 1:200
IF/ICC	1:50 - 1:200

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

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to NM23-H3
Specificity	Recognizes endogenous levels of NM23-H3 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human NM23-H3. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 19 kD; Observed: 15 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	Nucleoside diphosphate kinase 3; NDK 3; NDP kinase 3; DR-nm23; Nucleoside diphosphate kinase C; NDPKC; nm23-H3
Gene Symbol	NME3
Entrez Gene	4832(Human); 79059(Mouse)
SwissProt	Q13232(Human); Q9WV85(Mouse)

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

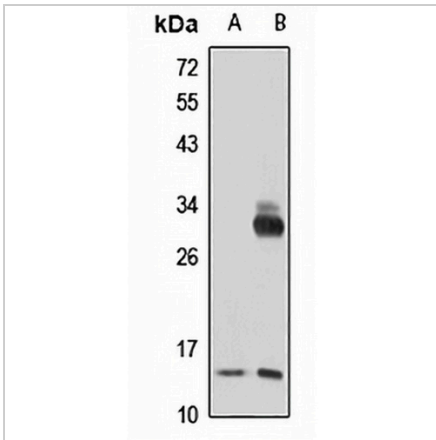
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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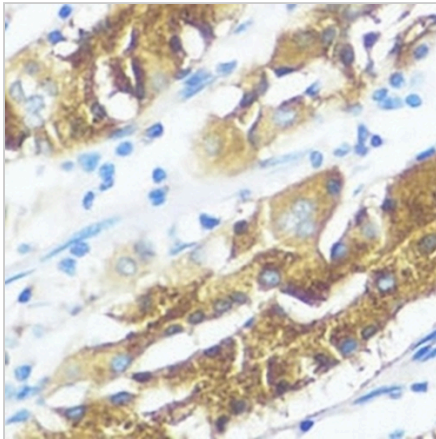
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Western blot analysis of NM23-H3 expression in Raji (A), mouse kidney (B) whole cell lysates. (Predicted band size: 19 kD; Observed band size: 15 kD)



Immunohistochemical analysis of NM23-H3 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.