

DATASHEET

NEK7 Rabbit Monoclonal Antibody(C1943)

CAT. NO. AMA01555

KEY FEATURES

Target	NEK7	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Protein kinase which plays an important role in mitotic cell cycle progression . Required for microtubule nucleation activity of the centrosome, robust mitotic spindle formation and cytokinesis . Phosphorylates EML4 at 'Ser-146', promoting its dissociation from microtubules during mitosis which is required for efficient chromosome congression . Phosphorylates RPS6KB1 . Acts as an essential activator of the NLRP3 inflammasome assembly independently of its kinase activity . Acts by unlocking NLRP3 following NLRP3 translocation into the microtubule organizing center (MTOC), relieving NLRP3 autoinhibition and promoting formation of the NLRP3:PYCARD complex, and activation of CASP1 .

APPLICATION

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

WB	1:500 - 1:1000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

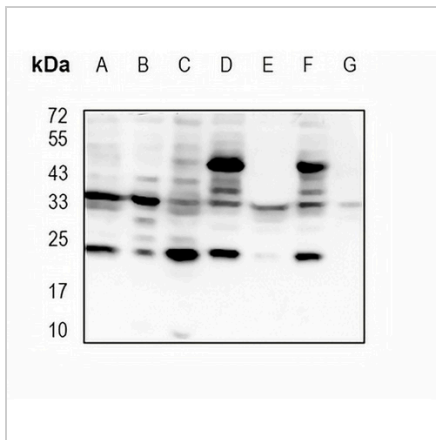
Description	Recombinant rabbit monoclonal antibody to NEK7
Specificity	Recognizes endogenous levels of NEK7 protein
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human NEK7 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 34 kD; Observed: 35 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Alternative Names	Serine/threonine-protein kinase Nek7; Never in mitosis A-related kinase 7; NimA-related protein kinase 7
Gene Symbol	NEK7
Entrez Gene	140609(Human); 59125(Mouse); 360850(Rat)
SwissProt	Q8TDX7(Human); Q9ES74(Mouse); D3ZBE5(Rat)

*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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DATA

Western blot analysis of NEK7 expression in THP1 (A), HeLa (B), MCF7 (C), mouse brain (D), mouse muscle (E), rat brain (F), rat muscle whole cell lysates. (Predicted band size: 34 kD; Observed band size: 35 kD)

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.