## NEK7 (C34C3) Rabbit mAb



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<b>Applications:</b> W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 32	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q8TDX7	Entrez-Gene Id: 140609
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		NEK7 (C34C3) Rabbit mAb detects endogenous levels of total NEK7 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human NEK7.				
Background		NEK7 (NIMA-related protein kinase 7), is one of a family of serine/threonine kinases, named NEK1– NEK11, which are involved in the control of mitosis and other non-mitotic functions (1-6). NEK7 is the smallest NIMA-related kinase in mammals, and is widely expressed by many tissues (1-3). Its role in mitosis relates to centrosome enrichment and microtubule nucleation, and similar to other NIMA-related kinases, NEK7 is localized to the microtubule-organizing center (MTOC) at the time of mitotic entry (3,6). NEK7 has also been demonstrated to be essential for NLRP3 inflammasome activation by directly binding to the leucine-rich repeat (LRR) domain of NLRP3 (4-6).				
Background Re	eferences	1. Kandli, M. et al. (20 2. Belham, C. et al. (20 3. O'regan, L. et al. (20 4. Shi, H. et al. (2016) 5. He, Y. et al. (2016) / 6. Sun, Z. et al. (2020)	003) <i>J Biol Chem</i> 278 007) <i>Cell Div</i> 2, 25. <i>Nat Immunol</i> 17, 25 Vature 530, 354-7.	3, 34897-909.		
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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