## នុ Exportin 5 (D7W6W) Rabbit mAb



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Applications: W, IP	<b>Reactivity:</b> H M Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 136	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9HAV4	<b>Entrez-Gene Id:</b> 57510		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol a 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			ol and less than				
Specificity/Sensitivity		Exportin 5 (D7W6W) Rabbit mAb recognizes endogenous levels of total exportin 5 protein.						
Species predicted to react based on 100% sequence homology		Hamster, Dog, Guinea Pig						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human exportin 5 protein.				prresponding to		
Background		Import and export through the nuclear envelope (NE) via facilitated translocation is important for many cellular processes including protein synthesis and miRNA biogenesis (1). Exportin 5 (XPO5) is a member of the importin $\beta$ family of proteins (2) and functions in tRNA export in a sequence dependent fashion. More recently, it has been shown to export pre-miRNA by a RanGTPase-driven process from the nucleus to the cytoplasm, where pre-miRNA processing occurs to produce mature miRNAs (1,3). Study of the miRNA biosynthesis pathway is essential toward understanding the process of oncogenesis as global downregulation of miRNAs and the resulting alterations in expression of tumor suppressor and oncogenic proteins is a common phenotype of cancers cells (3,4). Research studies have shown that disruption of exportin 5 functions in many types of cancers including breast and lung, where premiRNA accumulates in the nucleus and miRNA maturation is impaired (2,3).						
Background Re	ferences	1. Bohnsack, M.T. et al. (2004) <i>RNA</i> 10, 185-91. 2. Leaderer, D. et al. (2011) <i>Int J Mol Epidemiol Genet</i> 2, 9-18. 3. Melo, S.A. and Esteller, M. (2011) <i>Cell Cycle</i> 10, 922-5. 4. Melo, S.A. et al. (2010) <i>Cancer Cell</i> 18, 303-15.						
Species Reactiv	vity	Species reactivity is dete	ermined by testing	in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey 🛛	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human M: Mouse Mk: Monkey						
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