

## **Exportin 5 Antibody**



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Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 136	Source/Isotype: Rabbit	UniProt ID: #Q9HAV4	Entrez-Gene Id: 57510
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 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Exportin 5 Antibody recognizes endogenous levels of total exportin 5 protein.				
Species predicted to react based on 100% sequence homology		Hamster, Monkey, Bovine, Pig, Horse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu182 of human exportin 5 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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 References		<ol> <li>Bohnsack, M.T. et al. (2004) RNA 10, 185-91.</li> <li>Leaderer, D. et al. (2011) Int J Mol Epidemiol Genet 2, 9-18.</li> <li>Melo, S.A. and Esteller, M. (2011) Cell Cycle 10, 922-5.</li> <li>Melo, S.A. et al. (2010) Cancer Cell 18, 303-15.</li> </ol>				
Species Reactiv	itv	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	
Species Reactiv	,					western blot).
Western Blot B		IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody i	,

**Cross-Reactivity Key** H: Human

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