2565 Store at -200

Exportin 5 (D7W6W) Rabbit mAb



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Applications: WB, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 136	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HAV4	Entrez-Gene Id 57510	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Im	Immunoprecipitation			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity Exp	Exportin 5 (D7W6W) Rabbit mAb recognizes endogenous levels of total exportin 5 protein.					
Species predicte react based on 1 sequence homol	00%	nster, Dog, Guinea F	Pig				
Source / Purifica		,	. ,	nunizing animals with a s ıman exportin 5 protein.	, , ,	esponding 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 β 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 pre-miRNA accumulates in

the nucleus and miRNA maturation is impaired (2,3).

Background References

- 1. Bohnsack, M.T. et al. (2004) RNA 10, 185-91.
- 2. Leaderer, D. et al. (2011) Int J Mol Epidemiol Genet 2, 9-18.
- 3. Melo, S.A. and Esteller, M. (2011) Cell Cycle 10, 922-5.
- 4. Melo, S.A. et al. (2010) Cancer Cell 18, 303-15.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IP: Immunoprecipitation **Applications Key**

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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