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MEX3C (D5T2Z) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	80	Rabbit IgG	#Q5U5Q3	51320

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Specificity / Sensitivity

MEX3C (D5T2Z) Rabbit mAb recognizes endogenous levels of total MEX3C protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala54 of human MEX3C protein.

Background

MEX3C is an RNA-binding E3 ubiquitin ligase implicated in a diverse set of biological functions. Along with PIGN and ZNF516, MEX3C has been identified as a suppressor of chromosome instability (CIN), which drives intratumor heterogeneity and has been associated with poor prognosis in colon cancer. Silencing of the *Mex3c* gene induces chromosome instability through replication stress/impaired replication fork progression (1).

In mice, absence of the *Mex3c* gene causes growth retardation and reduced insulin-like growth factor 1 (IGF1) expression (2). Researchers have shown that murine MEX3C plays a role in controlling energy expenditure, physical activity and degree of adiposity (3,4). In the immune system, MEX3C is involved in post-transcriptional regulation of HLA-A2 (5), and plays a role in eliciting antiviral response (6).

Background References

1. Burrell, R.A. et al. (2013) *Nature* 494, 492-6.
2. Jiao, Y. et al. (2012) *Mol Biol Cell* 23, 1404-13.
3. Jiao, Y. et al. (2012) *Mol Cell Biol* 32, 4350-62.
4. Han, C. et al. (2014) *J Endocrinol* 221, 457-68.
5. Cano, F. et al. (2012) *EMBO J* 31, 3596-606.
6. Kuniyoshi, K. et al. (2014) *Proc Natl Acad Sci U S A* 111, 5646-51.

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**WB:** Western Blotting**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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