

**MEX3C (D5T2Z) Rabbit mAb**

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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:
W	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/impairment of 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**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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