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#8761

## DDX4 (D10C5) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IF-F	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9NQ10	<b>Entrez-Gene Id:</b> 54514
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Frozen)

#### Dilution

1:1000  
1:100  
1:200

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

DDX4 (D10C5) Rabbit mAb recognizes endogenous levels of total DDX4 protein.

### Species predicted to react based on 100% sequence homology

Monkey

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human DDX4 protein.

### Background

DDX4 is an ATP-dependent DEAD-box RNA helicase found in the chromatoid body of the germ cells (1). This enzyme is specific to germ cells and is necessary for germ cell development (2). Mouse DDX4 was shown to interact with Dicer, suggesting a role in microRNA-mediated RNA silencing (1).

### Background References

1. Kotaja, N. et al. (2006) *Proc Natl Acad Sci USA* 103, 2647-52.
2. Albamonte, M.S. et al. (2008) *Hum Reprod* 23, 1895-901.

### 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 **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen)

### Cross-Reactivity Key

**H:** Human **M:** Mouse

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