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#9407

## DDX6/RCK Antibody

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

<b>Applications:</b> W, IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 54	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P26196	<b>Entrez-Gene Id:</b> 1656
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### Product Usage Information

#### Application

Western Blotting  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:1000  
1:50  
1:50

### Storage

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

### Specificity/Sensitivity

DDX6/RCK Antibody detects endogenous levels of total DDX6/RCK protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human DDX6/RCK protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

DDX6, also known as RCK and p54, was identified as a proto-oncogene product and is a member of the ATP-dependent DEAD box helicase family (1,2). This protein interacts with translation initiation factor eIF4E in the cytoplasmic P-bodies (3) and represses mRNA translation (4). DDX6 is a component of the miRNA induced silencing complex (miRISC) and interacts with Argonaute 1 (Ago1) and Argonaute 2 (Ago2) proteins *in vitro* and *in vivo* (5), functioning in miRNA-mediated translational repression (5). Depletion of DDX6 leads to the disruption of cytoplasmic P-bodies indicating that it is required for P-body formation (5).

### Background References

1. Akao, Y. et al. (1995) *Cancer Res* 55, 3444-9.
2. Weston, A. and Sommerville, J. (2006) *Nucleic Acids Res* 34, 3082-94.
3. Andrei, M.A. et al. (2005) *RNA* 11, 717-27.
4. Minshall, N. and Standart, N. (2004) *Nucleic Acids Res* 32, 1325-34.
5. Chu, C.Y. and Rana, T.M. (2006) *PLoS Biol* 4, e210.

### 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 **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### Cross-Reactivity Key

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

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