

#9407 Store at -20°C

DDX6/RCK Antibody


Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC, FC-FP	H M R Mk	Endogenous	54	Rabbit	#P26196	1656

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

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

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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