

#9535 Store at -20C

PDCD4 (D29C6) XP® Rabbit mAb



Cell Signaling
TECHNOLOGY®

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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, IP, IHC-P, IF-IC	H M R Mk	Endogenous	60	Rabbit IgG	#Q53EL6	27250

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:200
1:600

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

PDCD4 (D29C6) XP® Rabbit mAb detects endogenous levels of total PDCD4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to human PDCD4 protein.

Background

PDCD4 (programmed cell death protein 4) was identified as a suppressor of neoplastic transformation (1). It interacts with eukaryotic initiation factors eIF4A and eIF4AII (2). PDCD4 colocalizes with eIF4A in the cytoplasm and inhibits the activity of eIF4A as an ATP-dependent RNA helicase (2). PDCD4 inhibits cap-dependent translation (2). Upon stimulation by mitogens, PDCD4 is phosphorylated on Ser67 by S6K1 kinase and then degraded through the ubiquitin pathway leading to enhanced translation and cell growth (3).

Background References

1. Cmarik, J.L. et al. (1999) *Proc Natl Acad Sci USA* 96, 14037-42.
2. Yang, H.S. et al. (2003) *Mol Cell Biol* 23, 26-37.
3. Dorrello, N.V. et al. (2006) *Science* 314, 467-71.

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 **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry)

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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