#3833 Store at -20°C

# eIF6 (D16E9) XP™ Rabbit mAb

☑ 100 µl
(10 western blots)


**Orders** ■ 877-616-CELL (2355)
orders@cellsignal.com
**Support** ■ 877-678-TECH (8324)
info@cellsignal.com
**Web** ■ www.cellsignal.com


rev. 03/18/10



**Entrez-Gene ID** #3692
**Swiss-Prot Acc.** #P56537

| Applications | Species Cross-Reactivity* | Molecular Wt. | Isotype |
|---|---|---|---|
| W, IP, IF-IC<br>Endogenous | H, M, R, Mk | 27 kDa | Rabbit IgG** |

**Background:** Eukaryotic initiation factor 6 (eIF6) is reqiured for the 60S ribosomal subunit assembly in the nucleolus (1). In the cytoplasm, this protein is bound to 60S ribosome subunits and prevents them from joining 40S ribosome subunits to form 80S ribosomes (2). eIF6 is also shown to associate with the RNA-induced silencing complex (RISC) (3). Deletion of eIF6 abolishes the miRNA-mediated gene silencing (3). eIF6 may play its essential role in miRNA-mediated silencing by inhibiting translation initiation or ribosome recycling (3).

**Specificity/Sensitivity:** eIF6 (D16E9) XP™ Rabbit mAb detects endogenous levels of total eIF6 protein.

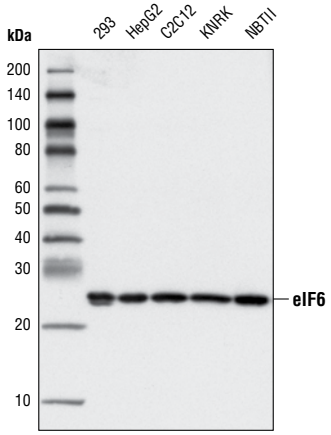
**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human eIF6.

**Background References:**

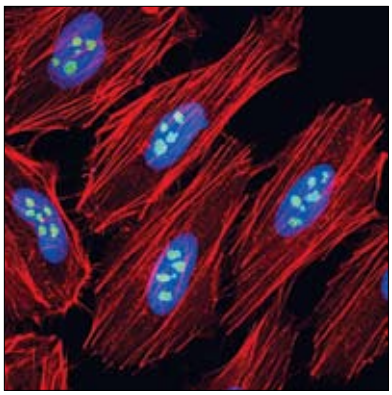

(1) Sanvito, F. et al. (1999) *J Cell Biol* 144, 823–37.

(2) Ceci, M. et al. (2003) *Nature* 426, 579–84.

(3) Chendrimada, T.P. et al. (2007) *Nature* 447, 823–8.


*Western blot analysis of extracts from various cell types using eIF6 (D16E9) XP™ Rabbit mAb.*



*Confocal immunofluorescent analysis of HeLa cells using eIF6 (D16E9) XP™ Rabbit mAb (green). Actin filaments have been labeled with DY-554 phalloidin (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).*

**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.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**

| | |
|---|---|
| Western blotting | 1:1000 |
| Immunoprecipitation | 1:50 |
| Immunofluorescence (IF-IC) | 1:600 |

**For application specific protocols please see the web page for this product at www.cellsignal.com.**

**Please visit www.cellsignal.com for a complete listing of recommended companion products.**

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

DRAQ5® is a registered trademark of Biostatus Limited.

**Applications Key:** **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

**Species Cross-Reactivity Key:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **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 **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.