hnRNP K (D9A8) Rabbit mAb



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| Applications: W, IP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 58-62 | Source/Isotype: Rabbit IgG | UniProt ID: #P61978 | Entrez-Gene Id: 3190 | | |
|---|---|--|---------------------------|--------------------------------------|--|-------------------------|--|--|
| Product Usage Information Storage | | Application Western Blotting Immunoprecipitation Supplied in 10 mM sod | lium HEPES (pH 7.5 | i), 150 mM NaCl, 100 μg | Dilution 1:1000 1:50 /ml BSA, 50% glycer | ol and less than | | |
| | | 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody. | | | | | | |
| Specificity/Sensitivity | | hnRNP K (D9A8) Rabbit mAb recognizes endogenous levels of total hnRNP K protein. | | | | | | |
| Source / Purifi | cation | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human hnRNP K protein. | | | | | | |
| Background | | Heterogeneous nuclear ribonucleoprotein K (hnRNP K) belongs to a family of RNA binding multiprotein complexes (hnRNP proteins) that facilitate pre-mRNA processing and transport of mRNA from the nucleus to cytoplasm (1-3). hnRNP K contains three unique structural motifs termed KH domains that bind poly(C) DNA and RNA sequences (4,5). Intricate architecture enables hnRNP K to facilitate mRNA biosynthesis (6), transcriptional regulation (7), and signal transduction. Research studies have shown that cytoplasmic hnRNP K expression is increased in oral squamous cell carcinoma and pancreatic cancer, and may be a potential prognostic factor (8,9). hnRNP K coordinates with p53 to regulate its target gene transcription in response to DNA damage. Proteasome degradation of hnRNP K is mediated by E3 ligase MDM2 (10). The interaction between hnRNP K and c-Src leads to hnRNP K phosphorylation, which allows for hnRNP K activation of silenced mRNA translation (11). | | | | | | |
| Background Re | eferences | Dreyfuss, G. et al. (1993) Annu Rev Biochem 62, 289-321. Siomi, H. et al. (1994) Cell77, 33-9. Miau, L.H. et al. (1998) J Biol Chem 273, 10784-91. Tomonaga, T. and Levens, D. (1995) J Biol Chem 270, 4875-81. Choi, H.S. et al. (2009) Biochem Biophys Res Commun 380, 431-6. Bustelo, X.R. et al. (1995) Mol Cell Biol 15, 1324-32. Michelotti, E.F. et al. (1996) Mol Cell Biol 16, 2350-60. Zhou, R. et al. (2000) Int J Cancer 126, 395-404. Matta, A. et al. (2009) Int J Cancer 125, 1398-406. Moumen, A. et al. (2005) Cell 123, 1065-78. Ostareck-Lederer, A. et al. (2002) Mol Cell Biol 22, 4535-43. | | | | | | |
| Species Reactiv | vity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | | |
| Western Blot B | 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. | | | | ו 5% w/v BSA, 1X | | |
| Applications K | ey | W: Western Blotting IP: Immunoprecipitation | | | | | | |
| Cross-Reactivit | ty Key | H: Human M: Mouse R: Rat Mk: Monkey | | | | | | |
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