

AUF1/hnRNP D (D604F) Rabbit mAb



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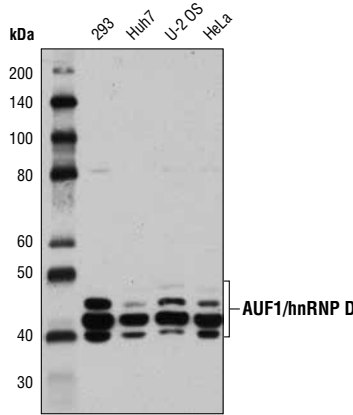
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Applications W, IP, IHC-P Endogenous	Species Cross-Reactivity* H	Molecular Wt. 37-48 kDa	Isotype Rabbit IgG**
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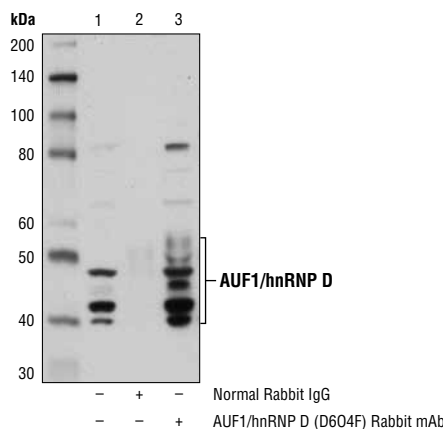
Background: AU-rich element RNA binding protein 1 (AUF1) is also known as heterogeneous ribonucleoprotein D (hnRNP D). AUF1 binds to the AU rich element (ARE) of target mRNA and regulates mRNA decay (1,2). It has a broad range of target genes including IL-1, IL-2, IL-3, Myc, TNF- α , and cyclin D1 (2). Binding of AUF1 to Myc mRNA also affects translation of Myc (3). Recent studies have provided evidence that AUF1 is also involved in the regulation of transcription. AUF1 binds to the promoters of various genes including complement receptor 2 (4), enkephalin (5), and α -fetoprotein (6). AUF1 also binds to the telomerase catalytic subunit Tert promoter and the G-rich telomeric repeat, thus regulating telomere maintenance and normal aging (7,8). AUF1 has four isoforms produced by alternative splicing of a single transcript: p37, p40, p42, and p45 (9,10). All AUF1 isoforms shuttle between the nucleus and cytoplasm (11, 12). These isoforms have distinct localization and bind to different target mRNAs that contribute to the diversity of AUF1 function (2).

Specificity/Sensitivity: AUF1/hnRNP D (D604F) Rabbit mAb recognizes endogenous levels of total AUF1 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human AUF1 protein.



Western blot analysis of extracts from various cells using AUF1/hnRNP D (D604F) Rabbit mAb.



Immunoprecipitation of AUF1 from HT-29 cell extracts using Normal Rabbit IgG #2729 (lane 2) or AUF1/hnRNP D (D604F) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using AUF1/hnRNP D (D604F) Rabbit mAb and Mouse Anti-rabbit IgG (Conformation Specific) (L27A9) mAb #3678.

Entrez-Gene ID #3184
Swiss-Prot Acc. #Q14103

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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
Immunohistochemistry (Paraffin)	1:50†
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Rabbit) #8114

†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

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

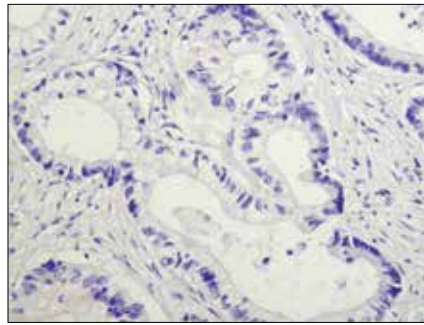
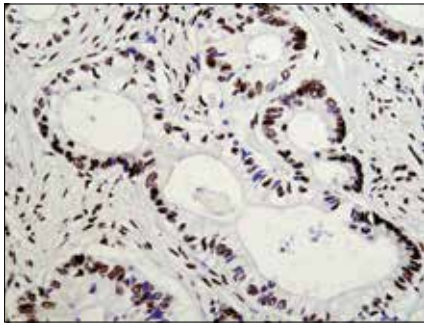
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Background References:

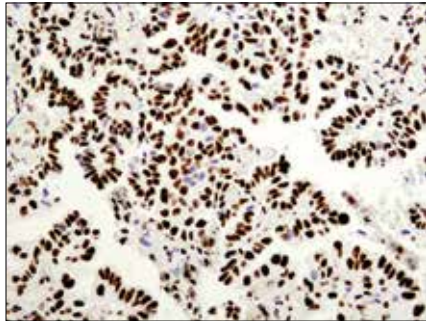
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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Immunohistochemical analysis of paraffin-embedded human colon carcinoma using AUF1/hnRNP D (D6O4F) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma using AUF1/hnRNP D (D6O4F) Rabbit mAb.