

Product datasheet for **TA336595**

HNRPM (HNRNPM) Mouse Monoclonal Antibody [Clone ID: 1D8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1D8
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	Immunohistochemistry-Paraffin: 1:200, Immunohistochemistry: 1:200 - 1:500, Western Blot: 1:500, Immunohistochemistry-Frozen: 1:10-1:500, Immunocytochemistry/Immunofluorescence: 1:10-1:500, Immunoprecipitation: 1:10-1:500
Reactivity:	Human, Mouse, Rat, Bovine, Porcine, Rabbit
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	M19 fusion protein containing full-length human protein. [UniProt# P52272]
Formulation:	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	heterogeneous nuclear ribonucleoprotein M
Database Link:	NP_112480 Entrez Gene 76936 Mouse Entrez Gene 116655 Rat Entrez Gene 4670 Human P52272



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Background:

RNA-binding proteins of mammalian hnRNP (heterogeneous nuclear ribonucleo protein) family represents a group of over 20 distinct evolutionary conserved proteins which share a capability to bind pre-mRNA/mRNA, and also binds to specific RNA motifs with high-affinity. They exhibit huge functional diversity and implicates in almost every step in mRNA's life cycle (from transcription and processing to transport and translation). HnRNP M is an abundant protein containing three RNA recognition motifs (RRM), a glycine/methionine-rich region and a methionine/arginine-rich repeat motif. It has four protein variants, hnRNP M1-4, ranging in molecular size from 68 to 72 kD which corresponds to spliced isoforms and/or posttranslationally modified forms. hnRNP M is a nucleolar protein and has been Identified in the spliceosome C complex. It acts as a pre-mRNA binding protein in vivo, binds avidly to poly(G) and poly(U) RNA homopolymers in vitro, and is involved in splicing. hnRNP M acts as a receptor for carcinoembryonic antigen in Kupffer cells, may initiate a series of signaling events leading to tyrosine phosphorylation of proteins and induction of IL-1 alpha, IL-6, IL-10 and TNF-alpha cytokines.

Synonyms:

CEAR; hnRNP M; HNRNPM4; HNRPM; HNRPM4; HTGR1; NAGR1

Note:

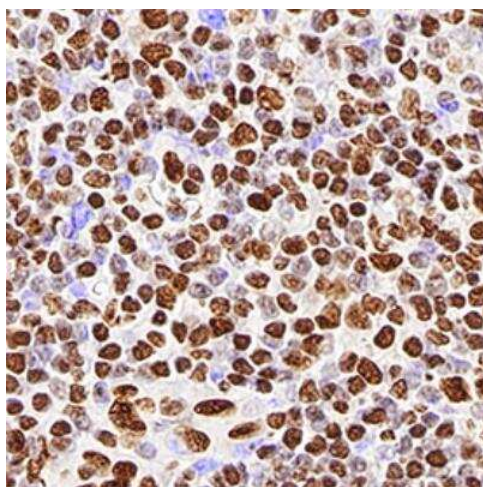
This hnRNP M1-M4 (1D8) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded and frozen sections, Immunoprecipitation and Western blot. A 64-68 kDa band can be seen in a Western blot using HeLa cell lysate.

Protein Families:

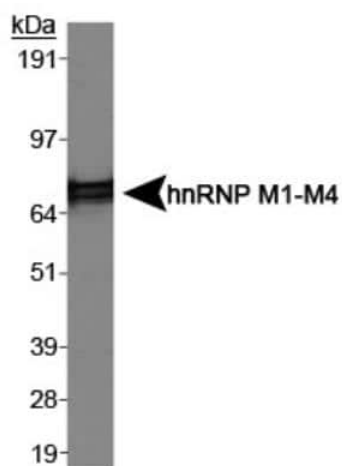
Druggable Genome

Protein Pathways:

Spliceosome

Product images:

Immunohistochemistry-Paraffin: hnRNP M1-M4 Antibody (1D8) TA336595 - Analysis of formalin fixed paraffin-embedded (FFPE) human tonsil using hnRNP M1-M4 (1D8) antibody at 1:500 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes with DAB was used for signal development followed by counterstaining with hematoxylin. Nuclear riboprotein staining was observed.



Western Blot: hnRNP M1-M4 Antibody (1D8)
TA336595 - Analysis of hnRNP M1-M4 in HeLa cell
lysates using TA336595.