Data Sheet (Cat.No.TMAH-00563)

Anti-HNRNPC Antibody (6O738)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6O738
Purification:	Affinity-chromatography

Applications

Verified Activity:

1. Western Blot
-Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate, JK whole cell lysate, Raji whole cell lysate, MCF7 whole cell lysate
-All lanes: HNRNPC antibody at 1:1000
-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
-Predicted band size: 34, 33, 36, 28 kDa
-Observed band size: 42 kDa
2. IHC image of TMAH-00563 diluted at 1:300 and staining in paraffin-embedded human braintissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody
3. IHC image of TMAH-00563 diluted at 1:300 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody
4. IHC image of TMAH-00563 diluted at 1:300 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody
5. Immunofluorescence staining of Hela cell with TMAH-00563 at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).
6. Immunofluorescence staining of Hela cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

7. Immunofluorescence staining of HepG2 cell with TMAH-00563 at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).
8. Immunofluorescence staining of HepG2 cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).
9. Overlay Peak curve showing MCF7 cells stained with TMAH-00563 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10^6 cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C.Control antibody (green line) was Rabit IgG (1ug/1*10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.
10. Immunoprecipitating HNRNPC in Hela whole cell lysate
-Lane 1: Rabbit control IgG instead of TMAH-00563 in Hela whole cell lysate. -Lane 2:TMAH-00563 (3μg) + Hela whole cell lysate (500μg)
-Lane 3: Hela whole cell lysate(20μg)
For western blotting, Goat polyclonal to rabbit IgG antibody was used as the secondary antibody (1/50000)

Application:	ELISA,FCM,IF,IHC,IP,WB
Recommended	WB:1:500-1:5000; IHC:1:50-1:200; IF:1:20-1:200; IP:1:200-1:1000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human HNRNPC
Antigen Species:	Human
Gene ID:	3183
Uniprot ID:	P07910
Synonyms:	MGC131677;MGC104306;C2;Heterogeneous nuclear ribonucleoproteins C1/C2;C1;hnRNP C1/C2;Nuclear ribonucleoprotein particle C1 protein;SNRPC;MGC117353;C1/C2;Hnrnpc;HNRNP; Heterogeneous nuclear ribonucleoprotein C;Nuclear ribonucleoprotein particle C2 protein; MGC105117;hnRNP C1 / hnRNP C2
Biology Area:	Epigenetics and Nuclear Signaling

Research Background

Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles. Interacts with poly-U tracts in the 3'-UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules. Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides. May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. N6-methyladenosine (m6A) has been shown to alter the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm(6)A-switch', facilitating binding of HNRNPC, leading to regulation of mRNA splicing.

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