# Data Sheet (Cat.No.TMAC-01993)

## Anti-HNRNPC Antibody (2T80)

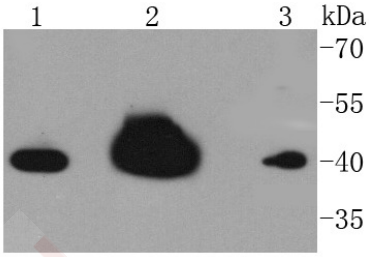
### Product Details

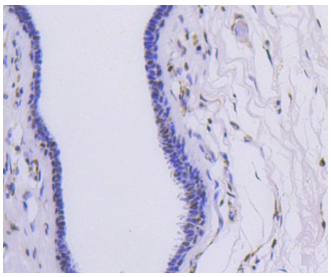
| | |
|---|---|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat,zebrafish |
| Conjugation: | Unconjugated |
| Molecular Weight: | Theoretical: 42 kDa. |
| Clone: | 2T80 |
| Purification: | ProA affinity purified |

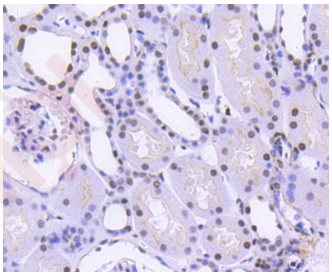
### Applications

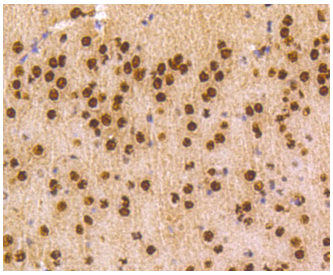
Verified Activity:

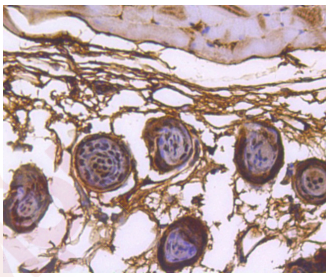
1. Western blot analysis of hnRNP C1+C2 on different lysates using anti-hnRNP C1+C2 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: MCF-7, Lane 3: HepG2.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-hnRNP C1+C2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-hnRNP C1+C2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-hnRNP C1+C2 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-hnRNP C1+C2 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-hnRNP C1+C2 antibody. Counter stained with hematoxylin.
7. ICC staining hnRNP C1+C2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining hnRNP C1+C2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining hnRNP C1+C2 in B16-F1 (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Hela cells with hnRNP C1+C2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

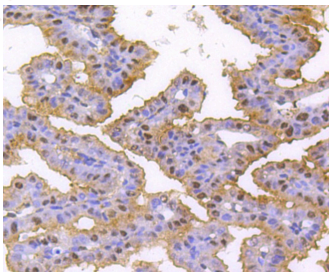


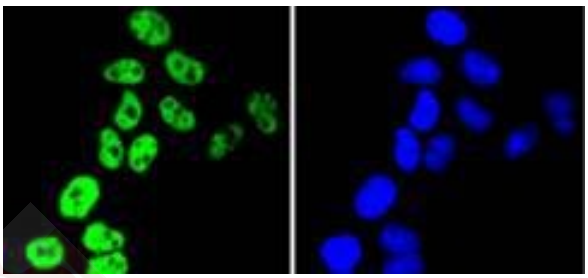


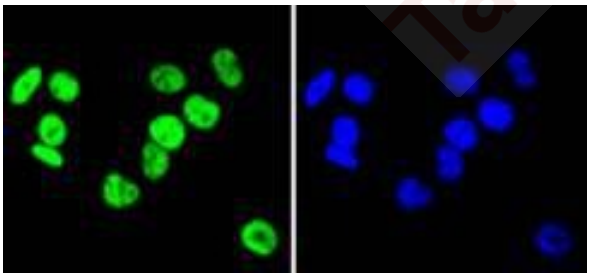


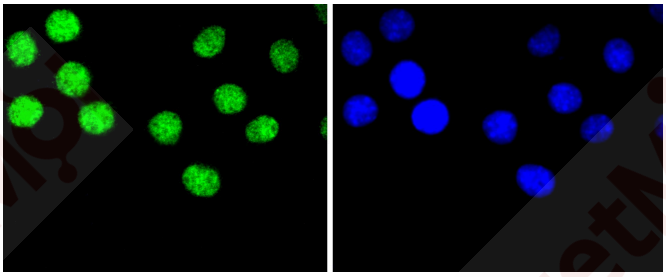


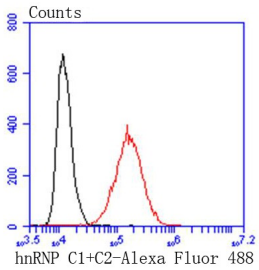













Application: FCM,ICC/IF,IHC,IP,WB

Recommended: WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:100-500; FCM: 1:50-100

## 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: Recombinant Protein

Synonyms: MGC131677;C2;SNRPC;Heterogeneous nuclear ribonucleoprotein C;C1;MGC117353; MGC104306;MGC105117;Hnrnpc;HNRNP;hnRNP C1/C2;Nuclear ribonucleoprotein particle C1 protein;C1/C2;Heterogeneous nuclear ribonucleoproteins C1/C2;Nuclear ribonucleoprotein particle C2 protein;hnRNP C1 / hnRNP C2

## Research Background

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to pre-mRNA processing and transport, and also bind heterogeneous nuclear RNA (hnRNA), which are the transcripts produced by RNA polymerase II. hnRNP complexes are the major constituents of the spliceosome and, in particular, the hnRNP A1 protein is one of the major pre-mRNA/mRNA binding proteins and also one of the most abundant proteins in the nucleus. hnRNP A1 and A2/B1 regulate the processing of pre-mRNA by directly antagonizing the association of various splicing factors and by influencing the splice site selection on pre-mRNA. The majority of hnRNP proteins components are localized to the nucleus; however, some shuttle between the nucleus and the cytoplasm. Most hnRNP proteins, in-cluding hnRNP C1 and C2, contain one or more RNA binding domains and are implicated in the processing of pre-mRNA. hnRNPs F and H are largely related factors that preferentially associate with poly(rG) regions on RNA. Isoforms of these proteins are often generated by alternative processing of the pre-mRNA and by posttranslational modifications such as phosphorylation on serines and threonines and methylation of arginines.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481