

Anti-HNRNPK Antibody (2G11)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2G11
Purification:	Affinity-chromatography

Applications

1. Western Blot

-Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, 293T whole cell lysate, 293 whole cell lysate, U87 whole cell lysate, SH-SY5Y whole cell lysate

-All lanes: HNRNPK antibody at 1.3µg/ml

-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution

-Predicted band size: 51, 52, 49 KDa

-Observed band size: 60 KDa

2. IHC image of TMAH-00564 diluted at 1:130.5 and staining in paraffin-embedded human pancreatic cancer performed on a Leica Bond™ 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 biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Verified Activity:

3. IHC image of TMAH-00564 diluted at 1:130.5 and staining in paraffin-embedded human cervical cancer performed on a Leica Bond™ 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 biotinylated secondary antibody and visualized using an HRP conjugated SP system.

4. Immunofluorescence staining of A549 cells with TMAH-00564 at 1:43.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 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-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

5. Immunoprecipitating HNRNPK in HepG2 whole cell lysate

-Lane 1: Rabbit control IgG instead of TMAH-00564 in HepG2 whole cell lysate.

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

-Lane 2: TMAH-00564 (3µg) + HepG2 whole cell lysate (500µg)

-Lane 3: HepG2 whole cell lysate (20µg)

A DRUG SCREENING EXPERT

Application: ELISA, WB, IHC, IF, IP

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 HNRNPK

Antigen Species: Human

Gene ID: 3190

Uniprot ID: P61978

Synonyms: CSBP;Transformation up regulated nuclear protein;hnRNP K;FLJ41122;dC stretch binding protein;Transformation upregulated nuclear protein;HNRNPK;TUNP;Heterogeneous nuclear ribonucleoprotein K

Biology Area: Epigenetics and Nuclear Signaling

Research Background

One of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) sequences. Likely to play a role in the nuclear metabolism of hnRNAs, particularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind poly (C) single-stranded DNA. Plays an important role in p53/TP53 response to DNA damage, acting at the level of both transcription activation and repression. When sumoylated, acts as a transcriptional coactivator of p53/TP53, playing a role in p21/CDKN1A and 14-3-3 sigma/SFN induction. As far as transcription repression is concerned, acts by interacting with long intergenic RNA p21 (lincRNA-p21), a non-coding RNA induced by p53/TP53. This interaction is necessary for the induction of apoptosis, but not cell cycle arrest.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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