

**HNRNPU Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21212b****Specification**

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**HNRNPU Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q00839</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	90584

**HNRNPU Antibody (C-term) - Additional Information****Gene ID** 3192**Other Names**

Heterogeneous nuclear ribonucleoprotein U, hnRNP U, Scaffold attachment factor A, SAF-A, p120, pp120, HNRNPU, HNRPU, SAFA, U211

**Target/Specificity**

This HNRNPU antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 766-800 amino acids from the C-terminal region of human HNRNPU.

**Dilution**

WB~~1:2000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HNRNPU Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HNRNPU Antibody (C-term) - Protein Information****Name** HNRNPU ([HGNC:5048](#))

**Function** DNA- and RNA-binding protein involved in several cellular processes such as nuclear chromatin organization, telomere-length regulation, transcription, mRNA alternative splicing and

stability, Xist-mediated transcriptional silencing and mitotic cell progression (PubMed:[10490622](#), PubMed:[18082603](#), PubMed:[19029303](#), PubMed:[22325991](#), PubMed:[25986610](#), PubMed:[28622508](#)). Plays a role in the regulation of interphase large-scale gene-rich chromatin organization through chromatin-associated RNAs (caRNAs) in a transcription-dependent manner, and thereby maintains genomic stability (PubMed:[1324173](#), PubMed:[28622508](#), PubMed:[8174554](#)). Required for the localization of the long non-coding Xist RNA on the inactive chromosome X (Xi) and the subsequent initiation and maintenance of X-linked transcriptional gene silencing during X-inactivation (By similarity). Plays a role as a RNA polymerase II (Pol II) holoenzyme transcription regulator (PubMed:[10490622](#), PubMed:[15711563](#), PubMed:[19617346](#), PubMed:[23811339](#), PubMed:[8174554](#), PubMed:[9353307](#)). Promotes transcription initiation by direct association with the core-TFIIB basal transcription factor complex for the assembly of a functional pre-initiation complex with Pol II in an actin-dependent manner (PubMed:[10490622](#), PubMed:[15711563](#)). Blocks Pol II transcription elongation activity by inhibiting the C-terminal domain (CTD) phosphorylation of Pol II and dissociates from Pol II pre-initiation complex prior to productive transcription elongation (PubMed:[10490622](#)). Positively regulates CBX5-induced transcriptional gene silencing and retention of CBX5 in the nucleus (PubMed:[19617346](#)). Negatively regulates glucocorticoid-mediated transcriptional activation (PubMed:[9353307](#)). Key regulator of transcription initiation and elongation in embryonic stem cells upon leukemia inhibitory factor (LIF) signaling (By similarity). Involved in the long non-coding RNA H19-mediated Pol II transcriptional repression (PubMed:[23811339](#)). Participates in the circadian regulation of the core clock component BMAL1 transcription (By similarity). Plays a role in the regulation of telomere length (PubMed:[18082603](#)). Plays a role as a global pre-mRNA alternative splicing modulator by regulating U2 small nuclear ribonucleoprotein (snRNP) biogenesis (PubMed:[22325991](#)). Plays a role in mRNA stability (PubMed:[17174306](#), PubMed:[17289661](#), PubMed:[19029303](#)). Component of the CRD-mediated complex that promotes MYC mRNA stabilization (PubMed:[19029303](#)). Enhances the expression of specific genes, such as tumor necrosis factor TNFA, by regulating mRNA stability, possibly through binding to the 3'-untranslated region (UTR) (PubMed:[17174306](#)). Plays a role in mitotic cell cycle regulation (PubMed:[21242313](#), PubMed:[25986610](#)). Involved in the formation of stable mitotic spindle microtubules (MTs) attachment to kinetochore, spindle organization and chromosome congression (PubMed:[21242313](#)). Phosphorylation at Ser-59 by PLK1 is required for chromosome alignment and segregation and progression through mitosis (PubMed:[25986610](#)). Also contributes to the targeting of AURKA to mitotic spindle MTs (PubMed:[21242313](#)). Binds to double- and single-stranded DNA and RNA, poly(A), poly(C) and poly(G) oligoribonucleotides (PubMed:[1628625](#), PubMed:[8068679](#), PubMed:[8174554](#), PubMed:[9204873](#), PubMed:[9405365](#)). Binds to chromatin-associated RNAs (caRNAs) (PubMed:[28622508](#)). Associates with chromatin to scaffold/matrix attachment region (S/MAR) elements in a chromatin-associated RNAs (caRNAs)-dependent manner (PubMed:[10671544](#), PubMed:[11003645](#), PubMed:[11909954](#), PubMed:[1324173](#), PubMed:[28622508](#), PubMed:[7509195](#), PubMed:[9204873](#), PubMed:[9405365](#)). Binds to the Xist RNA (PubMed:[26244333](#)). Binds the long non-coding H19 RNA (PubMed:[23811339](#)). Binds to SMN1/2 pre-mRNAs at G/U-rich regions (PubMed:[22325991](#)). Binds to small nuclear RNAs (snRNAs) (PubMed:[22325991](#)). Binds to the 3'-UTR of TNFA mRNA (PubMed:[17174306](#)). Binds (via RNA-binding RGG-box region) to the long non-coding Xist RNA; this binding is direct and bridges the Xist RNA and the inactive chromosome X (Xi) (By similarity). Also negatively regulates embryonic stem cell differentiation upon LIF signaling (By similarity). Required for embryonic development (By similarity). Binds to brown fat long non-coding RNA 1 (Blnc1); facilitates the recruitment of Blnc1 by ZBTB7B required to drive brown and beige fat development and thermogenesis (By similarity).

### Cellular Location

Nucleus. Nucleus matrix. Chromosome. Nucleus speckle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Midbody. Cytoplasm Cell surface. Cytoplasmic granule. Note=Localizes at inactive X chromosome (Xi) regions (PubMed:[11003645](#), PubMed:[14608463](#), PubMed:[15563465](#)) Localizes in the nucleus during interphase (PubMed:[21242313](#)). At metaphase, localizes with mitotic spindle microtubules (MTs) (PubMed:[21242313](#)). At anaphase, localizes in the mitotic spindle midzone (PubMed:[21242313](#)).

Localizes in spindle MTs proximal to spindle poles in a TPX2- and AURKA-dependent manner (PubMed:21242313). The Ser- 59 phosphorylated form localizes to centrosomes during prophase and metaphase, to mitotic spindles in anaphase and to the midbody during cytokinesis (PubMed:25986610). Colocalizes with SMARCA4 in the nucleus (By similarity). Colocalizes with CBX5 in the nucleus (PubMed:19617346). Colocalizes with NR3C1 in nuclear speckles (PubMed:9353307). Localized in cytoplasmic ribonucleoprotein (RNP) granules containing untranslated mRNAs (PubMed:17289661) {ECO:0000250|UniProtKB:Q8VEK3, ECO:0000269|PubMed:11003645, ECO:0000269|PubMed:14608463, ECO:0000269|PubMed:15563465, ECO:0000269|PubMed:17289661, ECO:0000269|PubMed:19617346, ECO:0000269|PubMed:21242313, ECO:0000269|PubMed:25986610, ECO:0000269|PubMed:9353307}

#### Tissue Location

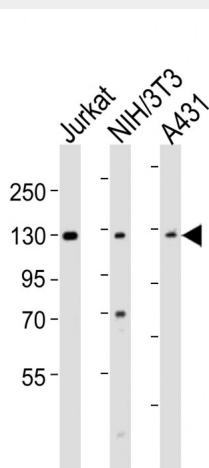
Widely expressed..

#### HNRNPU Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### HNRNPU Antibody (C-term) - Images



All lanes : Anti-HNRNPU Antibody (C-term) at 1:2000 dilution Lane 1: Jurkat whole cell lysates Lane 2: NIH/3T3 whole cell lysates Lane 3: A431 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 91 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### HNRNPU Antibody (C-term) - Background

Component of the CRD-mediated complex that promotes MYC mRNA stabilization. Binds to pre-mRNA. Has high affinity for scaffold-attached region (SAR) DNA. Binds to double- and single-stranded DNA and RNA. Plays a role in the circadian regulation of the core clock component ARNTL/BMAL1 transcription (By similarity).

#### **HNRNPU Antibody (C-term) - References**

Kiledjian M., et al. EMBO J. 11:2655-2664(1992).  
Fackelmayer F.O., et al. Biochim. Biophys. Acta 1217:232-234(1994).  
Fackelmayer F.O., et al. Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.  
Gregory S.G., et al. Nature 441:315-321(2006).  
Jordan P., et al. Biochemistry 33:14696-14706(1994).