

Anti-hnRNP-U / SAF-A antibody, rabbit serum (HUT)

70-415 100ul

Heterogeneous nuclear ribonucleoprotein U (hnRNP-U, also known as scaffold attachment factor A, SAF-A) is a nuclear matrix-associated protein that interacts with chromosomal DNA. hnRNP-U specifically binds to scaffold/matrix attachment region of DNA and could thus be involved in higher order chromatin structure. hnRNP-U is also a RNA binding protein and forms complexes with heterogeneous nuclear RNA (hnRNA) and plays an important role in pre-mRNA processing and transport.

HnRNP-U is reported to interact with necdin, a growth suppressor that is expressed in terminally differentiated neurons and skeletal muscle cells. It has been shown that hnRNP-U recruits necdin to the nuclear matrix where they form a stable complex. It is suggested that necdin suppresses cell proliferation through its interaction with hnRNP-U in the specific subnuclear structure (ref. 2).

An antibody (named HUT) against mouse hnRNP-U was raised in rabbit (ref. 2).

Applications

1. Western blot (dilution: 1/3,000-1/1,000)
2. Immunocytochemistry (dilution: 1/1,000-1/500)
3. Immunoprecipitation

Specification

Immunogen: Recombinant MBT-fused mouse hnRNP-U (aa 614-800).

Specificity: React with mouse and rat, and is estimated to react also with human from the amino acid sequence homology.

Form: Antiserum added with 0.05% sodium azide

Storage: Shipped at 4°C and stores at -20°C

Data Link: Swiss-Prot [Q8VEK3](#) (mouse), [Q00839](#) (human)

References: This antibody was described and used in ref. 2.

1. Kiledjian M and Dreyfuss G (1992) "Primary structure and binding activity of the hnRNP U protein: binding RNA through RGG box." *EMBO J* 11: 2655-2664 PMID: [1628625](#)
2. Taniura H and Yoshikawa K (2002) "Necdin interacts with the ribonucleoprotein hnRNP U in the nuclear matrix." *J Cell Biochem* 84:545-555 PMID: [11813259](#)

