

Anti-U1 snRNP C (U1C) antibody, rat monoclonal (4H12)

Product code	70-400
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	Recombinant GST-fused mouse U1C (full length)
Isotype	Rat IgG 2a κ
Reactivity	Specific to human, simian, and mouse U1C. Other species have not been tested.
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting 2. Immunocytochemistry 3. Immunohistochemistry (frozen section) 4. ELISA <p>Other applications have not been tested.</p>
Background	<p>The spliceosomal U1C protein is critical to the initiation and regulation of precursor messenger RNA (pre-mRNA) splicing, as part of the U1 small nuclear ribonucleoprotein particle (snRNP). U1C is needed for efficient complex formation of U1 snRNP with a 5' splice site.</p> <p>The antibody was produced from the hybridoma cultured in serum-free medium and purified under mild conditions by propriety chromatography processes.</p>
Data Link	UniProtKB Q62241 (mouse), P09234 (human)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 70-400 Anti-U1 snRNP C (U1C) antibody, rat monoclonal (4H12)

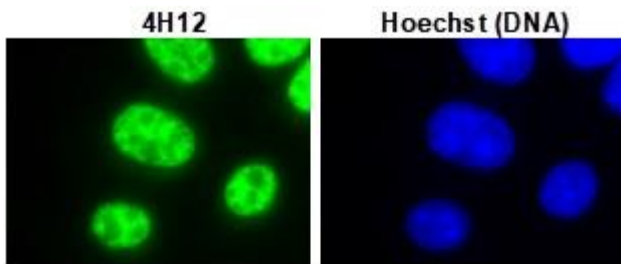


Fig.1 Immunofluorescent staining of L929 (mouse) cells with anti-U1C antibody (4H12)

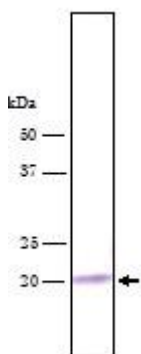


Fig.2 Detection of U1C protein in HeLa total cell extract by Western blotting with antibody 4H12

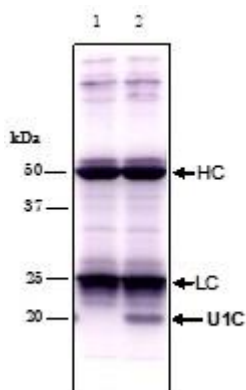


Fig.3 Immunoprecipitation of U1C protein with 4H12

Lane 1: no extract

Lane 2: HeLa total extract

References:

1. Muto Y *et al* "The structure and biochemical properties of the human spliceosomal protein U1C" *J Mol Biol* **341**: 185–198 (2004) PMID: [15312772](https://pubmed.ncbi.nlm.nih.gov/15312772/)
2. Pomeranz Krummel DA *et al* "Crystal structure of human spliceosomal U1 snRNP at 5.5A resolution" *Nature* **458**: 475-480 (2009) PMID: [19325628](https://pubmed.ncbi.nlm.nih.gov/19325628/)