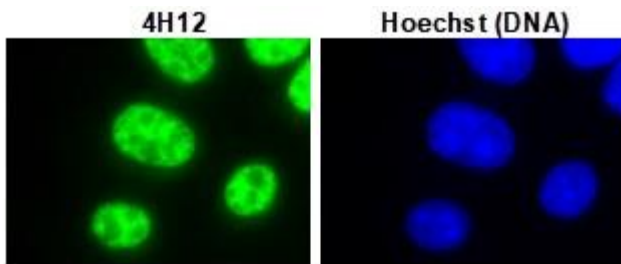


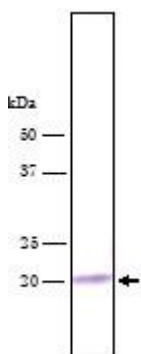
## Anti-U1 snRNP C (U1C) antibody, rat monoclonal (4H12)

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

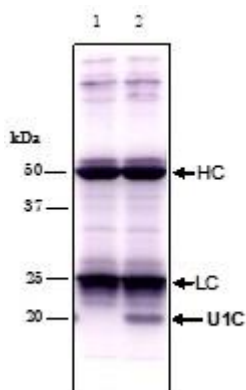
**Data Images:** 70-400 Anti-U1 snRNP C (U1C) antibody, rat monoclonal (4H12)



**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/)