

**Product Name**

Monoclonal Human  
Anti- apoptotic cleavage product of human U1-70K, clone 20C4

**CAT No.**

MQR 2.201-100

**Size**

100 µg



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**Intended use**

This product is for research use only. NOT for use in diagnostic or therapeutic procedures.

This product is intended for use in enzyme-linked immunosorbent assay (ELISA), immunoblotting (IB), immunoprecipitation (IP).

**Reagent provided**

The antibody is supplied in PBS, pH 7.2  
Antibody concentration: 0.5 mg/ml

**Isotype**

Human IgG1, λ

**Specificity**

Specificity has been tested in immunoblotting (figure 1). Additional tests for cross reactivity have not yet been performed.

**Purity**

Protein A purified.

**Precautions**

1. For professional users.
2. As with any product derived from biological sources, proper handling procedures should be used.
3. The product may be used in different techniques and in combination with different sample types and materials, therefore each individual laboratory should validate the applied test system.

**Preparation of the antibody**

Use antibody as supplied.

**Storage instructions**

Store at 2-8°C.  
For prolonged storage add sodium azide to 0.05%

**Dilution guidelines**

Optimum working dilutions of the product are not yet determined.

Unless the stability in the actual test system has been established, it is recommended to dilute the product immediately before use.

**Relevance**

The U1-70K protein is specifically bound to stemloop I of the U1 small nuclear RNA contained in the U1 small nuclear ribonucleoprotein complex (U1 snRNP), which is involved in the splicing of pre-mRNA. All components of the U1 snRNP complex, including the U1-70K protein, are important autoantigens in patients with systemic lupus erythematosus (SLE) and mixed connective tissue disease (MCTD) [1].

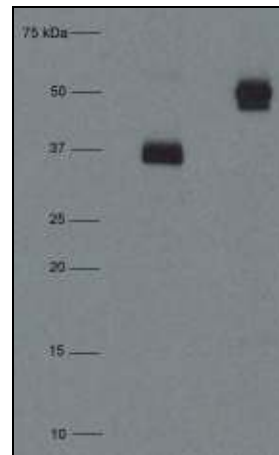


Figure 1: Specificity of Anti- apoptotic cleavage product of human U1-70K, clone C4F4, determined by Immunoblot analysis. Blot contains h apoptotic (left lane) and non apoptotic (right lane) Jurkat nuclear cell extract. Incubated with antibody fraction (0.5 mg/ml) 100X diluted in PBS containing 0,05% tween-20 and 5% non fat dry milk.

**References**

1. Hof, D., Cheung, K., de Rooij, D.R.A.M., van den Hoogen, F.H., Pruijn, G.J.M., van Venrooij, W.J., and J.M.H. Raats. (2005). Autoantibodies specific for apoptotic U1-70K are superior serological markers for mixed connective tissue disease. *Arthritis Res. Ther.* 7, R302-R309.