

## 36-2358: Anti-Ku (p70/p80) (Nuclear Marker) Monoclonal Antibody(Clone: KU729)-CF488

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	KU729
<b>Application :</b>	FACS,IF
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	CF488
<b>Gene :</b>	XRCC6 (p70) & XRCC5 (p80)
<b>Gene ID :</b>	2547; 7520
<b>Uniprot ID :</b>	P12956; P13010

**Alternative Name :** Ku (p70): 70kDa subunit of Ku antigen; ATP dependent DNA helicase 2 subunit 1; ATP-dependent DNA helicase II 70kDa subunit; CTC box-binding factor 75kDa subunit; CTC75; CTCBF; DNA repair protein XRCC6; G22P1; Ku autoantigen, 70kDa; Ku70; Kup70; Lupus Ku autoantigen protein p70; ML8; Thyroid autoantigen 70kD (Ku antigen); Thyroid-lupus autoantigen (TLAA); X-ray repair cross-complementing protein 6 (XRCC6) Ku (p80): 86kDa subunit of Ku antigen; ATP dependent DNA helicase 2 subunit 2; ATP dependent DNA helicase II 86Kd subunit; ATP-dependent DNA helicase II 80kDa subunit; CTC box-binding factor 85kDa subunit; CTC85; CTCBF; DNA repair protein XRCC5; KARP1; Ku autoantigen 80kDa; Ku80; Ku86 autoantigen related protein 1; KUB2; Lupus Ku autoantigen protein p86; Nuclear factor IV (NFIV); Thyroid-lupus autoantigen (TLAA); X-ray repair cross-complementing protein 5 (XRCC5)

<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Nuclear extract of human HL-60 cells

### Description

Recognizes a dimer of two proteins of 70kDa and ~80kDa, identified as two subunits of Ku. MAb KU729 recognizes a conformational epitope of p70/p80 dimer, which is destroyed during Western blotting. The p70/p80 dimer is important for function of a 460kDa DNA-dependent protein kinase. Ku protein plays a role in cell signaling, proliferation, DNA repair, replication, transcriptional activation, and apoptosis.

### Product Info

<b>Amount :</b>	0.5 ml at 100µg/ml
<b>Content :</b>	Antibody Purified from Bioreactor Concentrate by Protein A/G and conjugated to various reporter molecules. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide. Contact us if you require this Ab in a different format.
<b>Storage condition :</b>	Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Flow Cytometry (5ul per test per one million cells or 5ul per 100ul of whole blood);Immunofluorescence (1:50-1:100);

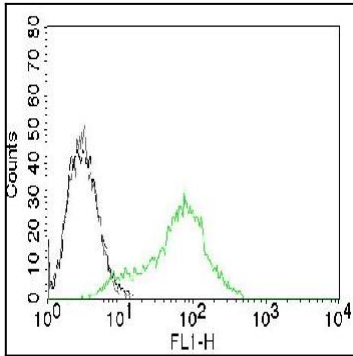


Fig. 1: Flow Cytometry of Human Ku (p70/p80) on 293T cells. Black: cells alone; Grey: Isotype Control; Green: CF488-labeled Ku Monoclonal Antibody (KU729).