

Catalog Number	PA-RP 000006
Batch Number(s):	PA-B-0001-RP-Ku70
Product Name	Rabbit anti-Human Ku70 Polyclonal

PRODUCT SPECIFICATION

Host	Rabbit
Colonicity	Polyclonal
Subclass	IgG
Immunogen	Peptide Sequences between Residues 205 - 256 and 573 - 623, referencing Uniprot P12956 and Gene ID 2547
Conjugate	Unconjugated
Form	Liquid
Concentration	1.0 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:250-1:1000
Immunocytochemistry / Microscopy	1:250-1:1000

PRODUCT DESCRIPTION

Ku70, as part of the Ku heterodimer with Ku80, vital in the Non-Homologous End Joining (NHEJ) pathway for repairing double-strand breaks (DSBs). It recognizes and binds to DNA breaks, forming a protective ring around them. Ku serves as a scaffold to recruit essential proteins, such as DNA-PKcs, and helps align the DNA ends for ligation. By protecting the ends from degradation and facilitating the assembly of other repair factors, Ku70/80 is crucial for accurate double-strand break (DSB) repair.

Uniprot ID	P12956
Gene ID	2547
Gene Symbol	Ku70

Gene
Aliases

5'-deoxyribose-5-phosphate lyase Ku70; 5'-dRP lyase Ku70; 70 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 1; ATP-dependent DNA helicase II 70 kDa subunit; ATP-dependent DNA helicase II, 70 kDa subunit; CTC box binding factor 75 kDa subunit; CTC75; CTCBF; DNA repair protein XRCC6; G22P1; Ku autoantigen p70 subunit; Ku autoantigen, 70kDa; KU70; lupus Ku autoantigen protein p70; ML8; thyroid autoantigen 70kDa (Ku antigen); thyroid-lupus autoantigen p70; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 6; X-ray repair cross-complementing protein 6

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