Ku70 (V540) Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit	UniProt ID: #P12956	Entrez-Gene Id: 2547
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Ku70 (V540) Antibody detects endogenous levels of total Ku70 protein.				
Species predicted to react based on 100% sequence homology		Hamster				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of the human Ku70 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		researchers as autoar polymyositis, and sys protein that binds to The Ku70/Ku80 heter binding regulatory co DNA-PK complex at D involved in double-str phosphorylate many and RNA polymerase	ntigens associated temic lupus eryther and stabilizes the eodimer has ATP-depmonent of DNA-depmonent of DNA-depmonent of DNA-depmonent of DNA-depmonent of DNA break proteins, including II (1,8). The combir luding cell cycle receins	of two subunits (Ku70 al with several autoimmun- matosus (1). Ku is an abu- nds of DNA at telomeres bendent DNA helicase ac ependent protein kinase d for nonhomologous en repair and V(D)J recombi- p53, serum response fac- led activities of Ku70/Kus julation, DNA replication ation.	e diseases including andant, ubiquitously or double-strande tivity and functions (DNA-PK) (6-8). The d-joining (NHEJ), or nation (8). DNA-PK l ctor, c-Jun, c-Fos, c-N 30 and DNA-PK imp	g scleroderma, y expressed nuclear d DNA breaks (2-5). as the DNA- e assembly of the ne mechanism has been shown to Myc, Oct-1, Sp-1, licate Ku in many
Background References		 Tuteja, R. and Tuteja, N. (2000) <i>Crit. Rev. Biochem. Mol. Biol.</i> 35, 1-33. Blier, P.R. et al. (1993) <i>J. Biol. Chem.</i> 268, 7594-7601. Jin, S. and Weaver, D.T. (1997) <i>EMBO J.</i> 16, 6874-6885. Boulton, S.J. and Jackson, S.P. (1998) <i>EMBO J.</i> 17, 1819-1828. Gravel, S. et al. (1998) <i>Science</i> 280, 741-744. Cao, Q.P. et al. (1994) <i>Biochemistry</i> 33, 8548-8557. Lees-Miller, S.P. et al. (1990) <i>Mol. Cell Biol.</i> 10, 6472-6481. Collis, S.J. et al. (2005) <i>Oncogene</i> 24, 949-961. 				
Species Reactiv	vity	Species reactivity is d	etermined by testir	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human Mk: Monkey

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