

Ku70 Polyclonal Antibody

| Product Details | |
|--------------------|--|
| Size | 100 µL |
| Species Reactivity | Human |
| Published Species | Mouse, Human |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | Recombinant fragment corresponding to a region within amino acids 366 and 607 of Human Ku70 |
| Form | Liquid |
| Concentration | 0.25 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7, with 20% glycerol |
| Contains | 0.025% ProClin 300 |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID | AB_2545014 |

| Applications | Tested Dilution | Publications |
|---|-----------------|----------------|
| Western Blot (WB) | 1:500-1:3,000 | 2 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:100-1:1,000 | - |
| Immunocytochemistry (ICC/IF) | 1:100-1:1,000 | - |
| Immunoprecipitation (IP) | 1:500-1:1,000 | - |
| in situ PLA (PLA) | Assay-dependent | - |

Product Specific Information

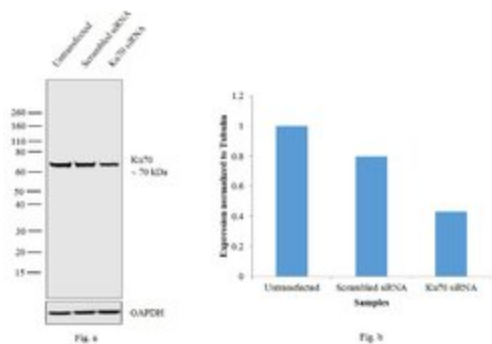
Recommended positive controls: 293T, A431, HeLa, HepG2.

Predicted reactivity: Mouse (82%), Rat (83%), Pig (87%), Chimpanzee (100%), Bovine (87%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

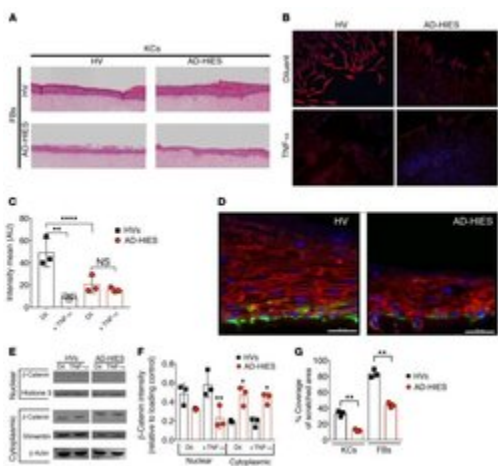
Ku70 Antibody (PA5-27538)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Ku70 siRNA and decrease in signal was observed in Western Blot using Ku70 Polyclonal Antibody (Product # PA5-27538). Knockdown validation info.

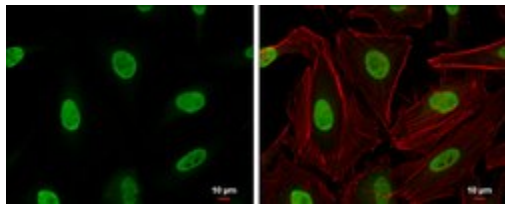


Ku70 Antibody (PA5-27538)

Transient KU70 expression does not affect Tus/Ter-induced HR in Ku70^{-/-} cells. A, Frequencies of Tus/Ter-induced and I-SceI-induced repair in four independently derived Ku70^{-/-} 6xTer-HR reporter clones (clones 27, 34, 41, and 47) with and without transient expression of exogenous hKU70. Cells transiently co-transfected with empty pcDNA3beta or pcDNA3beta-hKU70 expression vector and either empty, 3xMyc-NLS Tus or 3xMyc-NLS I-SceI expression vectors. Each column represents the mean of duplicate samples from eight independent experiments (n = 8), values are corrected for transfection efficiency. Error bars: s.e.m. Tus-induced total HR, t test: #27 +EV vs. +hKU70, p = 0.8355; #34 +EV vs. +hKU70, p = 0.3799; #41 +EV vs. +hKU70, p = 0.2710; #47 +EV vs. +hKU70, p = 0.4703; Tus-induced STGC, t test: #27 +EV vs. +hKU70, p = 0.7892; #34 +EV vs. +hKU70, p = 0.4223; #41 +EV vs. +hKU70, p = 0.2345; #47 +EV vs. +hKU70, p = 0.4426; Tus-induced LTGC, t test: #27 +EV vs. +hKU70, p = 0.4375; #34 +EV vs. +hKU70, p = 0.2413; #41 +EV vs. +hKU70, p = 0.8608; #47 +EV vs. +hKU70, p = 0.9872; Tus-induced LTGC/(Total HR), t test: #27 +EV vs. +hKU70, p = 0.2701; #34 +EV vs. +hKU70, p = 0.4964; #41 +EV vs. +hKU70, p = 0.2507; #47 +EV vs. +hKU70, p = 0.8222. I-SceI-induced total HR, t test: #27 +EV vs. +hKU70, p<0.0001; #34 +EV vs. +hKU70, p<0.0001; #41 +EV vs. +hKU70, p<0.0001; #47 +EV vs. +hKU70, p<0.0001; I-SceI-induced STGC, t test: #27 +EV vs. +hKU70, p<0.0001; #34 +EV vs. +hKU70, p<0.0001; #41 +EV vs. +hKU70, p<0.0001; #47 +EV vs. +hKU70, p<0.0001. Knockout validation info.



Product Images For Ku70 Polyclonal Antibody



Ku70 Antibody (PA5-27538) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of Ku70 in HeLa cells fixed with 4% paraformaldehyde at RT for 15 min. Green: Ku70 Polyclonal Antibody (Product # PA5-27538) diluted at 1:200. Red: phalloidin, a cytoskeleton marker. Scale bar = 10 μm.

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Western Blot (2)

PLoS genetics

Rad51 recruitment and exclusion of non-homologous end joining during homologous recombination at a Tus/Ter mammalian replication fork barrier.

"PA5-27538 was used in Western Blotting to show that Tus/Ter-induced homologous recombination is unaffected by deletion of either of two C-NHEJ genes, Xrcc4 and Ku70."

Authors: Willis NA, Panday A, Duffey EE, Scully R

Species
Mouse

Dilution
1:1,000

Year
2018

Virology

The interaction of adenovirus E1A with the mammalian protein Ku70 /XRCC6.

"PA527538 was used in ChIP assay, immunocytochemistry, and western blot to study the functional interaction between the host Ku70 and the adenovirus E1A proteins."

Authors: Frost JR, Olanubi O, Cheng SK, Soriano A, Crisostomo L, Lopez A, Pelka P

Species
Human

Dilution
1:3000

Year
2017

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