

# Product Data Sheet

## Anti-Ku80 Antibody

| Catalog #                | Source                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Reactivity | Applications  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|
| CPA2238                  | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H, Mk      | WB, IH, IF/IC |
| <b>Description</b>       | Rabbit polyclonal antibody to Ku80                                                                                                                                                                                                                                                                                                                                                                                                                             |            |               |
| <b>Immunogen</b>         | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Ku80. The exact sequence is proprietary.                                                                                                                                                                                                                                                                                                                            |            |               |
| <b>Purification</b>      | The antibody was purified by immunogen affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                |            |               |
| <b>Specificity</b>       | Recognizes endogenous levels of Ku80 protein.                                                                                                                                                                                                                                                                                                                                                                                                                  |            |               |
| <b>Clonality</b>         | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |               |
| <b>Form</b>              | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                                                                                                                                                                                                                                                                                                                      |            |               |
| <b>Dilution</b>          | WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)                                                                                                                                                                                                                                                                                                                                                                                                 |            |               |
| <b>Gene Symbol</b>       | XRCC5                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |               |
| <b>Alternative Names</b> | G22P2; X-ray repair cross-complementing protein 5; 86 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; CTC box-binding factor 85 kDa subunit; CTC85; CTCBF; DNA repair protein XRCC5; Ku80; Ku86; Lupus Ku autoantigen protein p86; Nuclear factor IV; Thyroid-lupus autoantigen; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining) |            |               |
| <b>Entrez Gene</b>       | 7520 (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |               |
| <b>SwissProt</b>         | P13010 (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |               |
| <b>Storage/Stability</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                               |            |               |

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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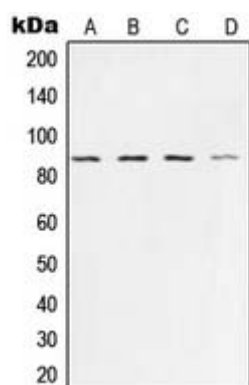
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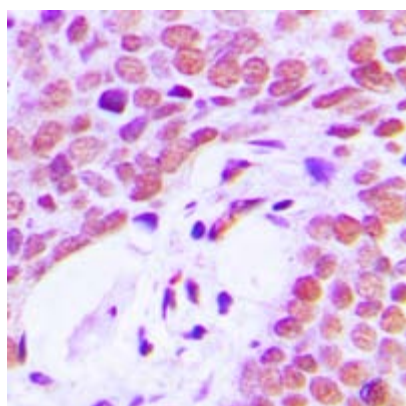
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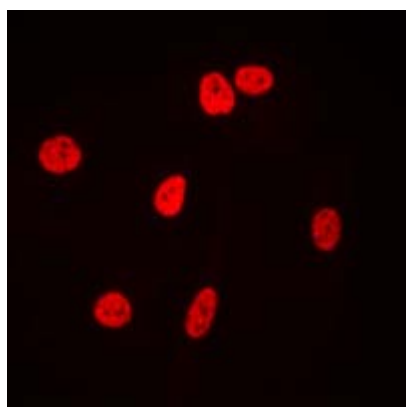
## Product Data Sheet



Western blot analysis of Ku80 expression in HeLa (A), A673 (B), A549 (C), COS7 (D) whole cell lysates.



Immunohistochemical analysis of Ku80 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Ku80 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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