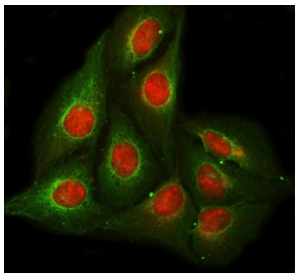
# RPB5 Antibody / POLR2E (RQ8138)

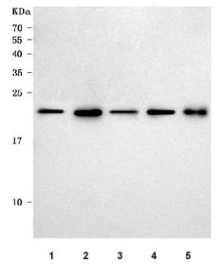
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8138 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

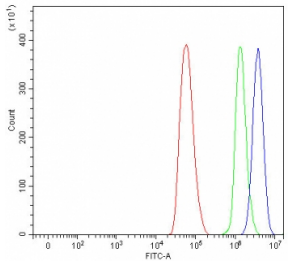
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P19388 |
| **Localization** | Nuclear |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunofluorescence: 5ug/ml<br>Flow cytometry: 1-3ug/million cells<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This RPB5 antibody is available for research use only. |



Immunofluorescent staining of FFPE human U-2 OS cells with RPB5 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.




Western blot testing of 1) human A431, 2) human HeLa, 3) human HepG2, 4) human MCF7 and 5) rat liver tissue lysate with RPB5 antibody. Predicted molecular weight ~24 kDa.




Flow cytometry testing of fixed and permeabilized human HeLa cells with RPB5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RPB5 antibody.

## Description

DNA-directed RNA polymerases I, II, and III subunit RPABC1, also called RPB5 homolog, is a protein that in humans is encoded by the POLR2E gene. This gene encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11. Three transcript variants encoding two different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the RPB5 antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids Q95-Q210) was used as the immunogen for the RPB5 antibody.

## Storage

After reconstitution, the RPB5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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