

## ARG45317 anti-C20orf77 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Polyclonal antibody recognizes C20orf77  |
| Tested Reactivity   | Hu, Mk   |
| Tested Application  | FACS, ICC/IF, IHC-P, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | Rabbit IgG   |
| Target Name         | C20orf77   |
| Species             | Human  |
| Immunogen           | Recombinant protein containing to human C20orf77.  |
| Conjugation         | Un-conjugated  |
| Alternate Names     | RPRD1B; Regulation Of Nuclear Pre-mRNA Domain Containing 1B; CREPT; DJ1057B20.2; Kub5-Hera; C20orf77; NET60; K-H; Cell-Cycle Related And Expression-Elevated Protein In Tumor; Regulation Of Nuclear Pre-mRNA Domain-Containing Protein 1B; Ku70-Binding Protein 5-Hera; DKFZp434P0735; FLJ44520; Cell Cycle-Related And Expression-Elevated Protein In Tumor; Chromosome 20 Open Reading Frame 77 |

### Application Instructions

| Application table | Application  | Dilution                       |
|-------------------|--|--------------------------------|
|                   | FACS   | 1 - 3 µg/10 <sup>6</sup> cells |
|                   | ICC/IF   | 5 µg/ml                        |
|                   | IHC-P  | 2-5 µg/ml                      |
|                   | WB   | 0.25-0.5 µg/ml                 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                                |
| Observed Size     | 37 kDa   |                                |

### Properties

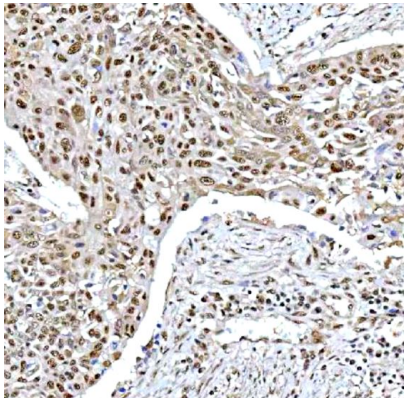
|               |   |
|---------------|---|
| Form          | Liquid  |
| Purification  | Affinity purification with immunogen.                               |
| Buffer        | 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl and 4% Trehalose. |
| Stabilizer    | 4% Trehalose  |
| Concentration | 0.5 mg/ml   |

|                     |  |
|---------------------|--|
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

### Bioinformation

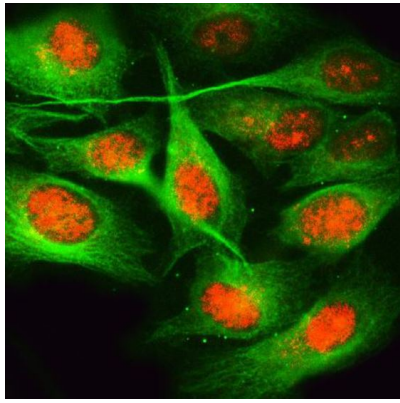
|                       |   |
|-----------------------|---|
| Gene Symbol           | RPRD1B  |
| Gene Full Name        | Regulation of Nuclear Pre-mRNA Domain Containing 1B   |
| Background            | Enables RNA polymerase II complex binding activity and identical protein binding activity. Involved in several processes, including RNA polymerase II promoter clearance; positive regulation of cell population proliferation; and positive regulation of transcription by RNA polymerase II. Located in nucleoplasm. Part of transcription preinitiation complex. [provided by Alliance of Genome Resources, Nov 2024]  |
| Function              | Interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD by RPAP2. Transcriptional regulator which enhances expression of CCND1. Promotes binding of RNA polymerase II to the CCDN1 promoter and to the termination region before the poly-A site but decreases its binding after the poly-A site. Prevents RNA polymerase II from reading through the 3' end termination site and may allow it to be recruited back to the promoter through promotion of the formation of a chromatin loop. Also enhances the transcription of a number of other cell cycle-related genes including CDK2, CDK4, CDK6 and cyclin-E but not CDKN1A, CDKN1B or cyclin-A. Promotes cell proliferation.. [UniProt] |
| Calculated Mw         | 37 kDa  |
| PTM                   | Acetylation; Phosphoprotein. [UniProt]  |
| Cellular Localization | Nucleus. [UniProt]  |

### Images



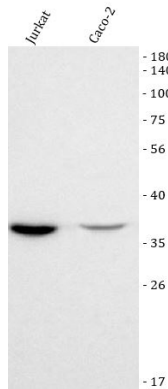
ARG45317 anti-C20orf77 antibody IHC-P image

Immunohistochemistry: Human esophageal squamous carcinoma stained with ARG45317 anti-C20orf77 antibody at 2 µg/ml dilution.



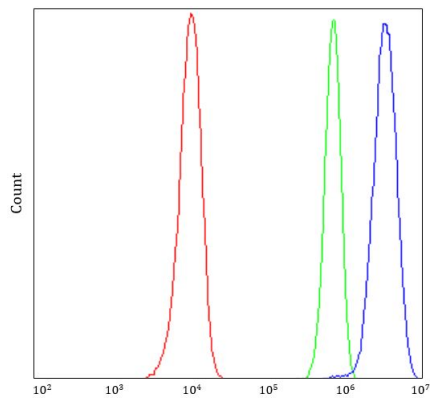
ARG45317 anti-C20orf77 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG45317 anti-C20orf77 antibody at 5  $\mu$ g/ml dilution.



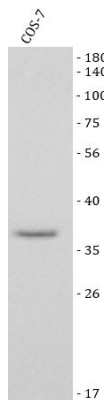
ARG45317 anti-C20orf77 antibody WB image

Western blot: Jurkat and Caco-2 stained with ARG45317 anti-C20orf77 antibody at 0.5  $\mu$ g/ml dilution.



ARG45317 anti-C20orf77 antibody FACS image

Flow Cytometry: HeLa stained with ARG45317 anti-C20orf77 antibody at 1  $\mu$ g/ $10^6$  cells dilution.



ARG45317 anti-C20orf77 antibody WB image

Western blot: COS-7 stained with ARG45317 anti-C20orf77 antibody at 0.5  $\mu$ g/ml dilution.