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Built Around Immunology

# Anti-CDKN2A/p14ARF Rabbit mAb [30F79]

**Catalog No.: A52251**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A52251 |
| Host species | Rabbit |
| Reactivity | Human |
| Applications | WB,IP,IF,ELISA |
| Synonyms | CDKN2A/p14ARF,p14-ARF,p16INK4a,p14ARF (human),MTSS1,INK4a/ARF |

## Product Information

| | |
|---|---|
| Target | CDKN2A/p14ARF |
| Molecular Weight(Calculated) | 14 kDa |
| Molecular Weight(Observed) | 16 kDa |
| Isotype | IgG,Kappa |
| Conjugation | NA |
| Concentration | 0.2 mg/ml |
| Clonality | Monoclonal |
| Clone No. | 30F79 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

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## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:1000-1:5000 |
| IP | 1:50-1:200 |
| IF | 1:200-1:1000 |
| ELISA | 1:5000-1:20000 |

## Target Information

| | |
|---|---|
| Protein Name | Cyclin-dependent kinase inhibitor-2A (ARF isoform) |
| Gene Name | *CDKN2A* |
| Domain | NA |
| Background | p14ARF (CDKN2A, cyclin-dependent kinase inhibitor 2A, ARF isoform) is an alternative-reading-frame product of tumor-suppressor CDKN2A, responsible for p53 stabilization, cell-cycle arrest and oncogenic surveillance. Translated from distinct reading frame of CDKN2A, p14ARF does not directly inhibit cyclin-dependent kinases. It binds and sequesters MDM2 to block MDM2-dependent p53 ubiquitination-degradation, elevating p53 abundance to trigger cell-cycle arrest and apoptosis upon oncogenic or genotoxic stress. Oncogenic activation up-regulates p14ARF as a critical tumor-suppressive checkpoint. Frequent locus deletion and epigenetic silencing of CDKN2A occur in diverse human malignancies. |