

Datasheet for ABIN1724645

## anti-Retinoblastoma 1 antibody



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1 Image

1 Publication

### Overview

|              |                                                 |
|--------------|-------------------------------------------------|
| Quantity:    | 100 µL                                          |
| Target:      | Retinoblastoma 1 (RB1)                          |
| Reactivity:  | Human                                           |
| Host:        | Mouse                                           |
| Clonality:   | Monoclonal                                      |
| Conjugate:   | This Retinoblastoma 1 antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC)                      |

### Product Details

|            |                                                                 |
|------------|-----------------------------------------------------------------|
| Immunogen: | Purified recombinant fragment of human RB expressed in E. Coli. |
| Clone:     | 7E4B8                                                           |
| Isotype:   | IgG1                                                            |

### Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | Retinoblastoma 1 (RB1)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Alternative Name: | RB ( <a href="#">RB1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Background:       | The Rb protein regulates differentiation, apoptosis, and cell cycle control by coordinating the cell cycle at G1-S with transcriptional machinery. During G1, cyclin D-dependent kinase-mediated phosphorylation of Rb at Ser-795 marks the conversion of Rb from a transcriptionally repressive, hypophosphorylated state to an inactive, phosphorylated state, which may be sustained through mitosis by differential phosphorylation of up to 16 putative serine or |

## Target Details

|           |                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | threonine residues. Pediatric cancer retinoblastoma and the formation of other human tumors can be attributed to mutations in the retinoblastoma tumor suppressor gene(Rb).                                                                                                                                |
| Gene ID:  | 5925                                                                                                                                                                                                                                                                                                       |
| HGNC:     | 5925                                                                                                                                                                                                                                                                                                       |
| UniProt:  | <a href="#">P06400</a>                                                                                                                                                                                                                                                                                     |
| Pathways: | <a href="#">Cell Division Cycle</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">Maintenance of Protein Location</a> , <a href="#">Synthesis of DNA</a> , <a href="#">Autophagy</a> |

## Application Details

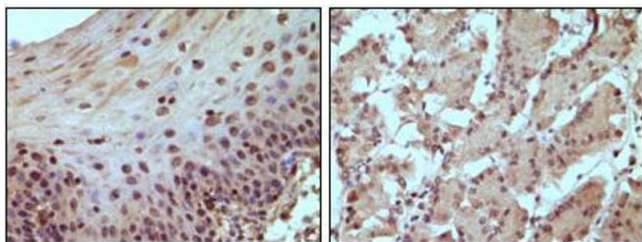
|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions:      | For Research Use only                                              |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Buffer:            | Ascitic fluid containing 0.03 % sodium azide.                                                                          |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C, -20 °C                                                                                                           |
| Storage Comment:   | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                               |

## Publications

|                   |                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product cited in: | Barrientes, Cooke, Goodrich: "Glutamic acid mutagenesis of retinoblastoma protein phosphorylation sites has diverse effects on function." in: <b>Oncogene</b> , Vol. 19, Issue 4, pp. 562-70, (2000) ( <a href="#">PubMed</a> ). |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



#### Immunohistochemistry

**Image 1.** Immunohistochemical staining of paraffin-embedded human normal esophagus (A) and stomach (B) tissue, showing nucleus localization using Rb mouse mAb with DAB staining.