



# IHCeasy RIOK1 Ready-To-Use IHC Kit

Catalog Number: KHC2858

**General Information** 

Sample type: FFPE tissue Cited sample type: Reactivity: Human, Mouse, Rat Cited Reactivity: Assay type: Immunohistochemistry Primary antibody type: Rabbit Polyclonal

Secondary antibody type: Polymer-HRP-Goat anti-Rabbit

#### Kit Component

| Component                | Size               | Concentration |
|--------------------------|--------------------|---------------|
| Antigen Retrieval Buffer | 100 mL             | 50×           |
| Washing Buffer           | 100 mL ×2          | 20×           |
| Blocking Buffer          | 5 mL               | RTU           |
| Primary Antibody         | 5 mL               | RTU           |
| Secondary Antibody       | 5 mL               | RTU           |
| Chromogen Component A    | 0.2 mL             | RTU           |
| Chromogen Component B    | 4 mL               | RTU           |
| Signal Enhancer          | 5 mL               | RTU           |
| Counter Staining Reagent | 5 mL               | RTU           |
| Mounting Media           | 5 mL               | RTU           |
| Control Slide            | 1 slide (Optional) | FFPE          |
| Datasheet                | 1 Copy             |               |
| Manual                   | 1 Copy             |               |

### Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

#### Background

RIOK1 (RIO Kinase 1) is a protein-coding gene located on chromosome 6 in humans. It encodes a serine/threonine-protein kinase that belongs to the RIO family of atypical protein kinases/ATPases. This family also includes RIOK2, RIOK3, and RIOB, which have evolved from Archaea to humans. RIOK1 is best known for its role in ribosome biogenesis and its involvement in various cellular processes, including translation regulation and cell-cycle progression.

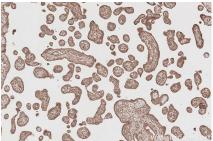
## Synonyms

AD034, EC:2.7.11.1, RIO kinase 1, RIO1, Serine/threonine-protein kinase RIO1

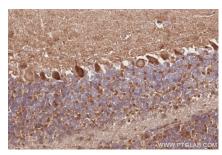
#### Selected Validation Data



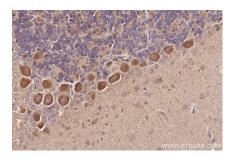
Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using KHC2858 (RIOK1 IHC Kit).



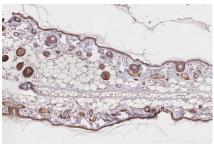
Immunohistochemical analysis of paraffinembedded human placenta tissue slide using KHC2858 (RIOK1 IHC Kit).



Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using KHC2858 (RIOK1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat cerebellum tissue slide using KHC2858 (RIOK1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat skin tissue slide using KHC2858 (RIOK1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat stomach tissue slide using KHC2858 (RIOK1 IHC Kit).