

Datasheet for ABIN6264419  
**anti-PRK1/2 antibody**



[Go to Product page](#)

1 Image

### Overview

|              |                                       |
|--------------|---------------------------------------|
| Quantity:    | 100 µL                                |
| Target:      | PRK1/2 (LOC103642306)                 |
| Reactivity:  | Human, Mouse, Rat                     |
| Host:        | Rabbit                                |
| Clonality:   | Polyclonal                            |
| Conjugate:   | This PRK1/2 antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB)          |

### Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | A synthesized peptide derived from human PRK1/2   |
| Isotype:          | IgG   |
| Specificity:      | PRK1/2 Antibody detects endogenous levels of PRK1/2   |
| Cross-Reactivity: | Human, Mouse (Murine), Rat (Rattus)   |
| Purification:     | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | PRK1/2 (LOC103642306)  |
| Alternative Name: | PRK1/2 ( <a href="#">LOC103642306 Products</a> )   |
| Background:       | Description: PKC-related serine/threonine-protein kinase involved in various processes such as |

## Target Details

---

regulation of the intermediate filaments of the actin cytoskeleton, cell migration, tumor cell invasion and transcription regulation. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14. Regulates the cytoskeletal network by phosphorylating proteins such as VIM and neurofilament proteins NEFH, NEFL and NEFM, leading to inhibit their polymerization. Phosphorylates 'Ser-575', 'Ser-637' and 'Ser-669' of MAPT/Tau, lowering its ability to bind to microtubules, resulting in disruption of tubulin assembly. Acts as a key coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and specifically mediating phosphorylation of 'Thr-11' of histone H3 (H3T11ph), a specific tag for epigenetic transcriptional activation that promotes demethylation of histone H3 'Lys-9' (H3K9me) by KDM4C/JMJD2C. Phosphorylates HDAC5, HDAC7 and HDAC9, leading to impair their import in the nucleus. Phosphorylates 'Thr-38' of PPP1R14A, 'Ser-159', 'Ser-163' and 'Ser-170' of MARCKS, and GFAP. Able to phosphorylate RPS6 in vitro.

Gene: PKN1

---

Molecular Weight: 104kDa

---

Gene ID: 5585

---

UniProt: [Q16512](#), [Q16513](#)

## Application Details

---

Application Notes: WB 1:500-1:2000

---

Restrictions: For Research Use only

## Handling

---

Format: Liquid

---

Concentration: 1 mg/mL

---

Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

---

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: -20 °C

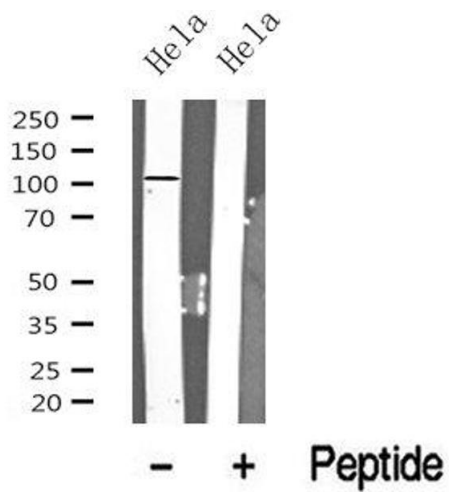
---

## Handling

Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt

Expiry Date: 12 months

## Images



### Western Blotting

**Image 1.** Western blot analysis of PRK1/2 in lysates of HeLa, using PRK1/2 Antibody(ABIN6272834).