

Datasheet for ABIN2452037

**anti-KPNA4 antibody (full length)****2** Images**3** Publications[Go to Product page](#)

## Overview

|                      |                              |
|----------------------|------------------------------|
| Quantity:            | 200 µg                       |
| Target:              | KPNA4                        |
| Binding Specificity: | full length                  |
| Reactivity:          | Mouse                        |
| Host:                | Rat                          |
| Clonality:           | Monoclonal                   |
| Application:         | Western Blotting (WB), ELISA |

## Product Details

|                  |  |
|------------------|--|
| Immunogen:       | Recombinant mouse importin α3 /KPNA4/ Qip 1 (full length)  |
| Clone:           | 3D10   |
| Isotype:         | IgG2a kappa  |
| Specificity:     | Reactive with human, simian, mouse, rat, hamster, canine and bovine importin α3. This antibody doesn't recognize other importin α family including α4. |
| Characteristics: | The antibody was purified from the serum-free cultured medium of the hybridoma under mild conditions by proprietary chromatography processes.          |
| Purification:    | Purified   |
| Sterility:       | Sterile filtered   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | KPNA4  |
| Alternative Name: | Importin alpha 3 / Qip1KPNA4 ( <a href="#">KPNA4 Products</a> )  |
| Background:       | Importin a proteins play a pivotal role in the import of proteins from the cytoplasm to the nucleus. Importin a proteins shuttle between nucleus and cytoplasm, bind nuclear localization signal (NLS)-bearing proteins, and mediate the protein import into the nucleus with importin b. Several importin a isotypes have been identified, each exhibiting differential recognition and nuclear transport, probably via preferential binding to a particular NLS. The importin a3 (KPNA4, Qip1) is a member of the importin a family of proteins belonging to the Qip1 subfamily. |
| Pathways:         | <a href="#">Protein targeting to Nucleus</a>   |

## Application Details

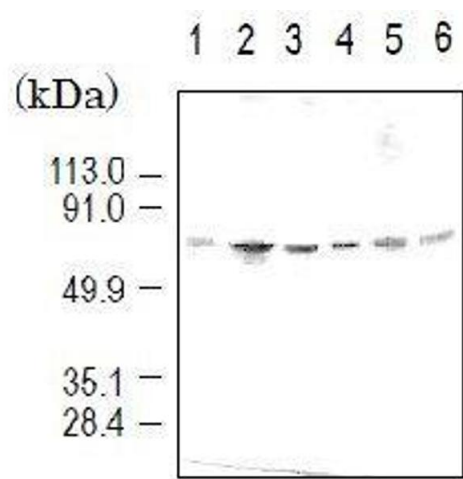
|                    |  |
|--------------------|--|
| Application Notes: | 1. Western blotting: 250~500 fold dilution<br>2. ELISA<br>This antibody doesn't work for immunostaining and immunoprecipitation. |
| Restrictions:      | For Research Use only  |

## Handling

|                  |                                      |
|------------------|--------------------------------------|
| Format:          | Liquid                               |
| Concentration:   | 1 mg/mL                              |
| Buffer:          | PBS, 50 % glycerol                   |
| Preservative:    | Azide free                           |
| Storage:         | -20 °C/-80 °C                        |
| Storage Comment: | -20 C (For long term storage: -70 C) |

## Publications

|                   |   |
|-------------------|---|
| Product cited in: | Walker: "Understanding the complexity of an organism's responses to DNA damage." in: <b>Cold Spring Harbor symposia on quantitative biology</b> , Vol. 65, pp. 1-10, (2003) ( <a href="#">PubMed</a> ). |
|-------------------|---|



Western Blotting

Image 1.

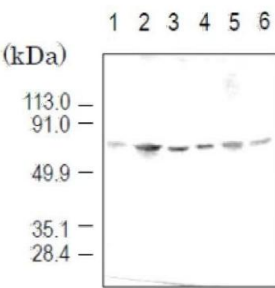


Fig.1  
Detection of importin  $\alpha 3$  (58 kD) by Western blotting using the antibody 3D10.  
Sample is the total cell extract.  
lane1: HeLa (human)  
lane2: COS7 (simian)  
lane3: L929 (mouse)  
lane4: NRK (rat)  
lane5: BHK (hamster)  
lane6: MDBK (bovine)

Western Blotting

Image 2.