

## Catalog No. BMR 00485

Mouse monoclonal antibody

**Anti-Human KPNA4**

### ■ Formulation

Mouse monoclonal anti-human **KPNA4** antibody in PBS (3.0 mM KCl, 1.5 mM  $\text{KH}_2\text{PO}_4$ , 140 mM NaCl, 8.0 mM  $\text{Na}_2\text{HPO}_4$  (pH 7.4)) containing 1% bovine serum albumin (BSA) and 0.05% sodium azide ( $\text{NaN}_3$ ).

### ■ Antibody concentration

100  $\mu\text{g/ml}$  (1.0 ml)

### ■ Storage

Store at 2-8°C for up to one year.  
 We recommend storing at -20°C for long-term storage.  
 Avoid repeat freezing and thawing cycles.

### ■ Preparation

This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.

### ■ Sterility

Filtered through a 0.22  $\mu\text{m}$  membrane.

### ■ Applications

Please visit our website at <http://www.biomatrix.co.jp/>.

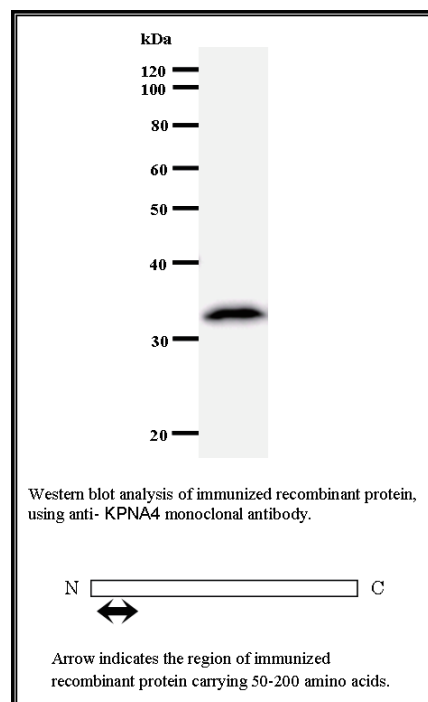
### ■ Disposal

This antibody solution contains sodium azide ( $\text{NaN}_3$ ) as a preservative. There is a potential hazard that  $\text{NaN}_3$  reacts with copper or lead to produce an explosive compound. For safe disposal, the vial has to be washed thoroughly with water.

### ■ Safety warnings and precautions

Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water. Do not ingest, inhale, or swallow. Seek medical attention immediately.  
 Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.  
 It is strongly advised that this product should be handled by people who have been well trained in laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.  
 All chemicals are deemed potentially harmful.  
 The vial is prone to fall over. Use caution, especially when the lid is off.

Lot No. **2500D3a-1**  
 Clone No. **2500D3a**  
 Antibody class : **IgG2a**  
 Immunogen : **Recombinant**



FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

manufactured by BMR

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**Mouse monoclonal antibody**

**Anti-Human KPNA4**

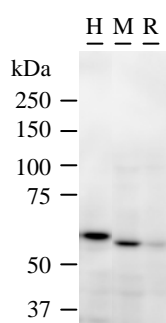
### ■ Background

The nuclear import of karyophilic proteins is directed by short amino acid sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by this gene shares the sequence similarity with *Xenopus* importin-alpha and *Saccharomyces cerevisiae* Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen. [NCBI Entrez Gene Summary]

### ■ Recommended condition

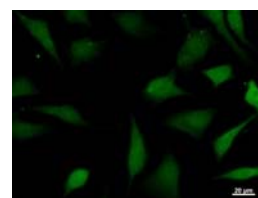
WB: 0.2-2 µg/ml    ICC: 2-100 µg/ml

### ■ Application



Detection of KPNA4 by Western blot.  
 Samples: Whole cell lysate from human HT-1080 (H, 25 µg), mouse NIH3T3 (M, 25 µg) and rat F2408 (R, 25 µg) cells. [Lot No. 2500D3a-1]

Predicted molecular weight: 57 kDa



Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-KPNA4 mAb. [Lot No. 2500D3a-1]