Anti-Importin α3 / KPNA4/Qip1 antibody (3D10)

**BACKGROUND**
Importinα proteins play a pivotal role in the import of proteins from the cytoplasm to the nucleus. Importinα proteins shuttle between nucleus and cytoplasm, bind nuclear localization signal (NLS)-bearing proteins, and mediate the protein import into the nucleus with importin β. Several importinα isotypes have been identified, each exhibiting differential recognition and nuclear transport, probably via preferential binding to a particular NLS. The importina3 (KPNA4, Qip1) is a member of the importina family of proteins belonging to the Qip1 subfamily. The antibody was purified from the serum-free cultured medium of the hybridoma under mild conditions by proprietary chromatography processes.

**Product type** | Primary antibodies  
---|---
**Host** | Rat  
**Form** | Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized  
**Volume** | 200µg  
**Concentration** |  
**Epitope** | Not determined  
**Antigen** | A region of NS5a protein (the nucleotide sequence is shown in ref.4) of HCV genotype 1b expressed in E.coli  
**Clone** | 3D10  
**Isotype** | Rat IgG2a, kappa  

**Application notes**
1. Western blotting (250~500 fold dilution)  
2. ELISA  
This antibody doesn’t work for immunostaining and immunoprecipitation. Other applications have not been tested.  
Optimal dilutions/concentrations should be determined by the end user.

**Data Link**
Swiss-Prot D3DNM2  
**Reactivity**
Reactive with human, simian, mouse, rat, hamster, canine and bovine importin α3. This antibody doesn’t recognize other importina family including α4.

**Storage**
-20°C (long period, -70°C)  
**References**

www.cosmobio.com
Fig. 1
Detection of importin α3 (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)