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Importin β 1 (E1F1E) Rabbit mAb

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Rabbit IgG	UniProt ID: #Q14974	Entrez-Gene Id: 3837	
Product Usage Information	We	pplication estern Blotting munoprecipitation			Dilution 1:1000 1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensi	itivity Imp	Importin β 1 (E1F1E) Rabbit mAb recognizes endogenous levels of total importin β 1 protein.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro307 of human importin β 1 protein.					
Background Background Refe	sub Imp proo kary patt form pore imp binc imp binc 2. P 3. M 4. L	Importins belong to the karyopherin family of nuclear transport proteins (1) and are divided into two subgroups: importin α and importin β . Importins mainly function in nuclear protein import and export (2,3). Importin β 1 (also known as karyopherin β 1, Kpn β 1, Kpn β 1, Kpn β 1, or p97) plays a key role in the nuclear import process (1-3). Nuclear import in β 1 association with adaptor importin α (also known as karyopherin α , or Kpn α) is an essential component of the classical nuclear localization signal (NLS) pathway (4). Importin α directly recognizes the NLS present in the cargo target, prompting complex formation with importin β 1. The cargo:importin α :importin β 1 complex is transported across the nuclear pore complex (NPC) into the nucleus, where it is dissociated by the binding of RanGTP (1-4). Nuclear import directly via importin β 1 can also occur by importin β 1 recognition of the cargo protein, bypassing import a nuclear involvement. In both cases, the importin β 1/target protein interaction is mediated through the binding of importin β 1 HEAT repeats with the target protein sequences (either the cargo protein itself or import α) (5).					
				hys Acta 1813, 1562-77.	ad application (o.g., w	octorn blot)	
Species Reactivity							
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity I	X: X	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected					
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Importin β 1 (E1F1E) Rabbit mAb (#51186) Datasheet Without Images Cell Signaling Technology

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