

Product Datasheet

Importin alpha 5/KPNA1/SRP1 Antibody (2A4-1B5) - Azide and BSA Free H00003836-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00003836-M01

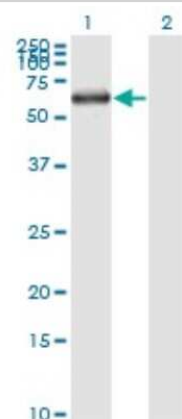
Importin alpha 5/KPNA1/SRP1 Antibody (2A4-1B5) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2A4-1B5
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	3836
Gene Symbol	KPNA1
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in customer review.
Specificity/Sensitivity	KPNA1 - karyopherin alpha 1 (importin alpha 5)
Immunogen	KPNA1 (AAH02374.1, 1 a.a. ~ 538 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MTTPGKENFRLKSYKNKSLNPDEMRRRREEEGLQLRKQKREEQLFKRRNVAT AEEETEEVMSDGGFHEAQINMEMAPGGVITSDMIEMIFSKSPEQQLSATQK FRKLLSKEPNPPIDEVISTPGVVARFVEFLKRKENCTLQFESAWVLTNIASGNSL QTRIVIQAGAVPIFIELLSSEFEDVQEQAVALGNIAGDSTMCRDYLDCNILPP LLQLFSKQNRLTMTRNAVWALSNLCRGKSPPEFAKVSPCLNVLSWLLFVSDT DVLADACWALSYLSDGPNDKIQAVIDAGVCRRLVELLMHNDYKVVSPALRAVG NIVTGDDIQTQVILNCSALQSLLHLLSSPKESIKKEACWTISNITAGNRAQIQTVID ANIFPALISILQTAEFRTRKEAAWAITNATSGGSAEQIKYLVELGCIKPLCDLLTV MDSKIVQVALNGLENILRLGEQEAKRNGTGINPYCALIEEAYGLDKIEFLQSHEN QEIQKAFDLIEHYFGTEDEDSSIAPQVDLNQQQYIFQQCEAPMEGFQL
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	This antibody reactivity against cell lysate and recombinant protein for WB. It has been used for IHC-P and ELISA. ICC/IF usage reported in scientific literature (PMID: 21741962). Use in immunoprecipitation reported in scientific literature (PMID: 26052702).

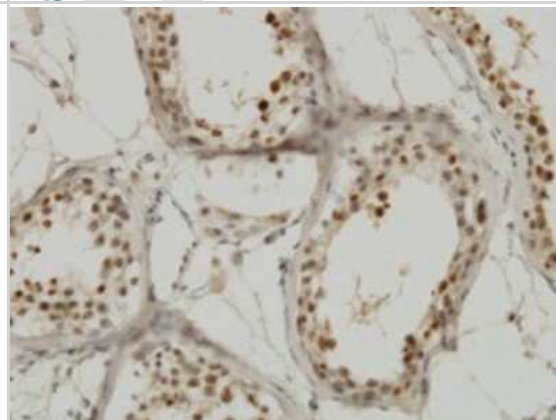


Images

Western Blot: Importin alpha 5/KPNA1/SRP1 Antibody (2A4-1B5) [H00003836-M01] - Analysis of KPNA1 expression in transfected 293T cell line by KPNA1 monoclonal antibody (M01), clone 2A4-1B5. Lane 1: KPNA1 transfected lysate(60.2 KDa). Lane 2: Non-transfected lysate.



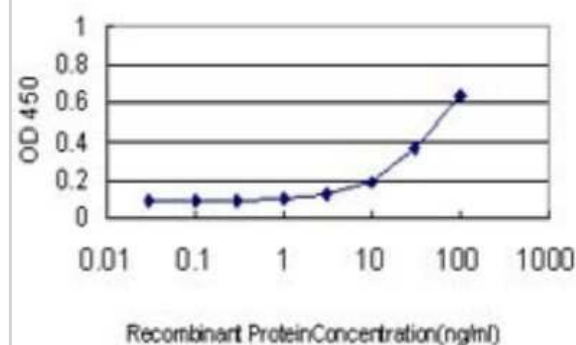
Immunohistochemistry-Paraffin: Importin alpha 5/KPNA1/SRP1 Antibody (2A4-1B5) [H00003836-M01] - Analysis of monoclonal antibody to KPNA1 on formalin-fixed paraffin-embedded human testis. Antibody concentration 1 ug/ml.



Western Blot: Importin alpha 5/KPNA1/SRP1 Antibody (2A4-1B5) [H00003836-M01] - KPNA1 monoclonal antibody (M01), clone 2A4-1B5 Analysis of KPNA1 expression in HeLa.



ELISA: Importin alpha 5/KPNA1/SRP1 Antibody (2A4-1B5) [H00003836-M01] - Detection limit for recombinant GST tagged KPNA1 is approximately 1ng/ml as a capture antibody.



Publications

Kim NH, Yoshimaru T, Chen YA et al. BIG3 Inhibits the Estrogen-Dependent Nuclear Translocation of PHB2 via Multiple Karyopherin-Alpha Proteins in Breast Cancer Cells. PLoS One 2015-01-01 [PMID: 26052702] (IP, Human)

Nishimura AL, Zupunski V, Troakes C et al. Nuclear import impairment causes cytoplasmic trans-activation response DNA-binding protein accumulation and is associated with frontotemporal lobar degeneration. Brain. 2010-05-14 [PMID: 20472655]

Moriyama T, Nagai M, Oka M et al. Targeted disruption of one of the importin alpha family members leads to female functional incompetence in delivery. FEBS J. 2011-03-03 [PMID: 21371262]

Moriyama T, Sangel P, Yamaguchi H et al. Identification and characterization of a nuclear localization signal of TRIM28 that overlaps with the HP1 box. Biochem Biophys Res Commun. 2015-05-07 [PMID: 25960296]

Theiss AL, Jenkins AK, Okoro NI et al. Prohibitin Inhibits Tumor Necrosis Factor alpha-induced Nuclear Factor-kappa B Nuclear Translocation via the Novel Mechanism of Decreasing Importin {alpha}3 Expression. Mol Biol Cell;20 (20):4412-4423. 2009-01-01 [PMID: 19710421]

Hall MN, Griffin CA, Simionescu A et al. Distinct roles for classical nuclear import receptors in the growth of multinucleated muscle cells. Developmental Biology. Dev Biol;357(1):248-58. 2011-09-01 [PMID: 21741962]



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Products Related to H00003836-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00003836-P01-10ug	Recombinant Human Importin alpha 5/KPNA1/SRP1 GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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