10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KPNA1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant KPNA1.
Catalog # AT2647a

Product Information

Application	WB, IHC, E
Primary Accession	P52294
Other Accession	BC002374
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2A4-1B5
Calculated MW	60222

Additional Information

Gene ID	3836
Other Names	Importin subunit alpha-5, Karyopherin subunit alpha-1, Nucleoprotein interactor 1, NPI-1, RAG cohort protein 2, SRP1-beta, Importin subunit alpha-5, N-terminally processed, KPNA1, RCH2
Target/Specificity	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.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	KPNA1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

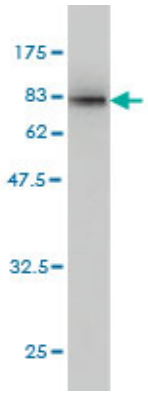
Background

Recombination activating proteins RAG1 and RAG2 regulate and mediate V(D)J recombination, the process by which genes for immunoglobulins and T-cell receptors are generated. Several other ubiquitously expressed proteins are thought to be recruited in the recombination process. Among these are the genes affected in severe combined immune deficiency and genes involved in ds-DNA break repair. The protein encoded by this gene interacts with RAG1 and may play a role in V(D)J recombination. Two transcript variants, one protein-coding and the other not, have been found for this gene.

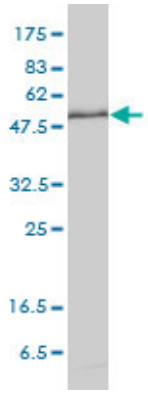
References

1.Targeted disruption of one of the importin ? family members leads to female functional incompetence in delivery.Moriyama T, Nagai M, Oka M, Ikawa M, Okabe M, Yoneda Y.FEBS J. 2011 Mar 3. doi: 10.1111/j.1742-4658. 2011.08079.x. [Epub ahead of print]2.Nuclear import impairment causes cytoplasmic trans-activation response DNA-binding protein accumulation and is associated with frontotemporal lobar degeneration.Nishimura AL, Zupunski V, Troakes C, Kathe C, Fratta P, Howell M, Gallo JM, Hortobagyi T, Shaw CE, Rogelj B.Brain. 2010 Jun;133(Pt 6):1763-71. Epub 2010 May 14.

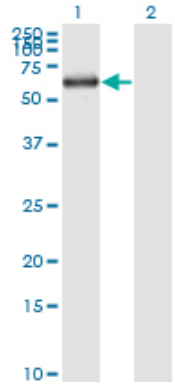
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (84.92 KDa) .

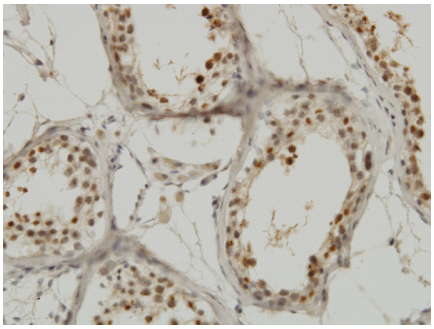


KPNA1 monoclonal antibody (M01), clone 2A4-1B5
Western Blot analysis of KPNA1 expression in HeLa ((Cat # AT2647a)

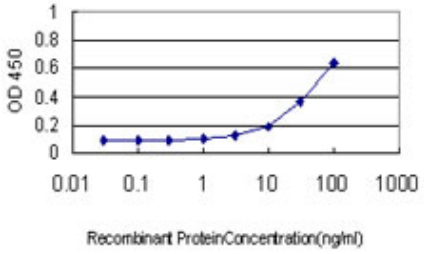


Western Blot analysis of KPNA1 expression in transfected 293T cell line by KPNA1 monoclonal antibody (M01), clone 2A4-1B5.

Lane 1: KPNA1 transfected lysate(60.2 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to KPNA1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged KPNA1 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.