

Rabbit IPO9 Polyclonal Antibody | anti-IPO9 antibody

Anti-IPO9 Antibody Picoband

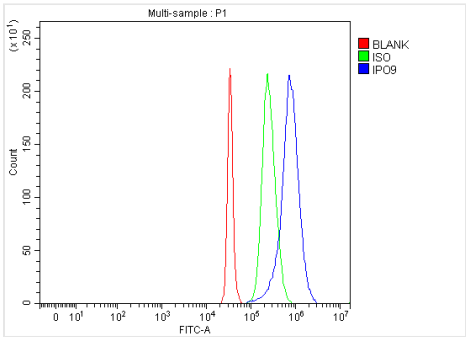
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19940	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

IPO9; Polyclonal Antibody; Anti-IPO9 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-IPO9 antibody

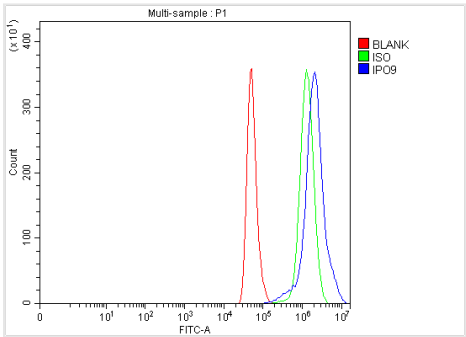
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-IPO9 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human IPO9 recombinant protein (Position: Q37-I1041). Human IPO9 shares 99% amino acid (aa) sequence identity with mouse IPO9.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of SH-SY5Y cells using anti-IPO9 antibody (AAA19940).Overlay histogram showing SH-SY5Y cells stained with AAA19940 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IPO9 Antibody (AAA19940, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of HeLa cells using anti-IPO9 antibody (AAA19940).Overlay histogram showing HeLa cells stained with AAA19940 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IPO9 Antibody (AAA19940, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

References	1. Clemons, A. M., Brockway, H. M., Yin, Y., Kasinathan, B., Butterfield, Y. S., Jones, S. J. M., Colaiacovo, M. P., Smolikove, S. akirin is required for diakinesis bivalent structure and synaptonemal complex disassembly at meiotic prophase I. <i>Molec. Biol. Cell</i> 24: 1053-1067, 2013. 2. de Almeida, M., Hinterndorfer, M., Brunner, H., Grishkovskaya, I., Singh, K., Schleiffer, A., Jude, J., Deswal, S., Kalis, R., Vunjak, M., Lendl, T., Imre, R., Roitingner, E., Neumann, T., Kandolf, S., Schutzbier, M., Mechtler, K., Versteeg, G. A., Haselbach, D., Zuber, J. AKIRIN2 controls the nuclear import of proteasomes in vertebrates. <i>Nature</i> 599: 491-496, 2021. 3. Goto, A., Matsushita, K., Gesellchen, V., El Chamy, L., Kutenkeuler, D., Takeuchi, O., Hoffmann, J. A., Akira, S., Boutros, M., Reichhart, J.-M. Akirins are highly conserved nuclear proteins required for NF-kappa-B-dependent gene expression in drosophila and mice. <i>Nature Immun.</i> 9: 97-104, 2008. Note: Erratum: <i>Nature Immun.</i> 9: 216 only, 2008.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21361659
NCBI GeneID	55705
NCBI Accession #	NP_060555.2
NCBI GenBank Nucleotide #	NM_018085.4
UniProt Accession #	Q96P70; Q8N1Y1; Q8N3I2; Q8NCG9; Q96SU6; Q9NW01; Q9P0A8; Q9ULM8; B1ASV5
Molecular Weight	115,963 Da
NCBI Official Full Name	importin-9
NCBI Official Synonym Full Names	importin 9
NCBI Official Symbol	IPO9
NCBI Official Synonym Symbols	Imp9
NCBI Protein Information	importin-9; ranBP9; ran-binding protein 9
UniProt Protein Name	Importin-9
UniProt Gene Name	IPO9
UniProt Synonym Gene Names	IMP9; KIAA1192; RANBP9; Imp9; RanBP9
UniProt Entry Name	IPO9_HUMAN

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