

Mouse RBPJK/RBPJ Monoclonal Antibody | anti-RBPJ antibody

Anti-RBPJK/RBPJ Antibody (monoclonal, 6G4)

CATALOG # AAA125907	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

RBPJK/RBPJ; Monoclonal Antibody; Anti-RBPJK/RBPJ Antibody (monoclonal; 6G4); RBPJ; IGKJRB; IGKJRB1; RBPJK; RBPSUH; Recombining binding protein suppressor of hairless; CBF-1; J kappa-recombination signal-binding protein; RBP-J kappa; RBP-J; RBP-JK; Renal carcinoma antigen NY-REN-30; recombination signal binding protein for immunoglobulin kappa J region; anti-RBPJ antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	6G4
Specificity	Mouse IgG monoclonal antibody for RBPJK/RBPJ detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-RBPJ antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human RBPJK/RBPJ recombinant protein (Position: K41-Q467).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U937 cells using anti-RBPJK/RBPJ antibody (AAA125907). Overlay histogram showing U937 cells stained with AAA125907 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RBPJK/RBPJ Antibody (AAA125907, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-RBPJK/RBPJ antibody (AAA125907). Overlay histogram showing HEPA1-6 cells stained with AAA125907 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RBPJK/RBPJ Antibody (AAA125907, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of RBPJK/RBPJ using anti-RBPJK/RBPJ antibody (AAA125907). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates Lane 2: human HEPG2 whole cell lysates Lane 3: human HELA whole cell lysates Lane 4: human MCF-7 whole cell lysates Lane 5: human U87 whole cell lysates Lane 6: human HL-60 whole cell lysates Lane 7: rat NRK whole cell lysates Lane 8: mouse smooth muscle tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti- RBPJK/RBPJ antigen affinity purified monoclonal antibody (Catalog # AAA125907) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RBPJK/RBPJ at approximately 56KD. The expected band size for RBPJK/RBPJ is at 56KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RBPJ antibody	Recombination signal binding protein for immunoglobulin kappa J region is a protein that in humans is encoded by the RBPJ gene. It is mapped to 4p15. 2. The protein encoded by this gene is a transcriptional regulator important in the Notch signaling pathway. The encoded protein acts as a repressor when not bound to Notch proteins and an activator when bound to Notch proteins. It is thought to function by recruiting chromatin remodeling complexes containing histone deacetylase or histone acetylase proteins to Notch signaling pathway genes. Several transcript variants encoding different isoforms have been found for this gene, and several pseudogenes of this gene exist on chromosome 9.
References	1. Hassed, S. J., Wiley, G. B., Wang, S., Lee, J. -Y., Li, S., Xu, W., Zhao, Z. J., Mulvihill, J. J., Robertson, J., Warner, J., Gaffney, P. M. RBPJ mutations identified in two families affected by Adams-Oliver syndrome. <i>Am. J. Hum. Genet.</i> 91: 391-395, 2012. 2. Kulic, I., Robertson, G., Chang, L., Baker, J. H. E., Lockwood, W. W., Mok, W., Fuller, M., Fournier, M., Wong, N., Chou, V., Robinson, M. D., Chun, H. -J., and 9 others. Loss of the Notch effector RBPJ promotes tumorigenesis. <i>J. Exp. Med.</i> 212: 37-52, 2015. 3. Masui, T., Long, Q., Beres, T. M., Magnuson, M. A., MacDonald, R. J. Early pancreatic development requires the vertebrate suppressor of hairless (RBPJ) in the PTF1 bHLH complex. <i>Genes Dev.</i> 21: 2629-2643, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	42560227
NCBI GeneID	3516
NCBI Accession #	NP_005340.2
NCBI GenBank Nucleotide #	NM_005349.3
UniProt Accession #	Q06330; Q5XKH9; Q6P1N3; B4DY22
Molecular Weight	54,297 Da
NCBI Official Full Name	recombining binding protein suppressor of hairless isoform 1
NCBI Official Synonym Full Names	recombination signal binding protein for immunoglobulin kappa J region
NCBI Official Symbol	RBPJ
NCBI Official Synonym Symbols	SUH; csl; AOS3; CBF1; KBF2; RBP-J; RBPJK; IGKJRB; RBPSUH; IGKJRB1
NCBI Protein Information	recombining binding protein suppressor of hairless; CBF-1; RBP-JK; RBP-J kappa; H-2K binding factor-2; suppressor of hairless homolog; renal carcinoma antigen NY-REN-30; immunoglobulin kappa J region recombination signal binding protein 1

UniProt Protein Name	Recombining binding protein suppressor of hairless
UniProt Gene Name	RBPJ
UniProt Synonym Gene Names	IGKJRB; IGKJRB1; RBPJK; RBPSUH; RBP-J; RBP-JK
UniProt Entry Name	SUH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rbpjk-rbpj-antibody-clone-6g4-flow-cytometry-western-blot-elisa/125907>