

ARG43143 anti-RBPJK antibody [6G4]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [6G4] recognizes RBPJK
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	6G4
Isotype	IgG2b
Target Name	RBPJK
Species	Human
Immunogen	Recombinant protein corresponding to K41-Q467 of Human RBPJK.
Conjugation	Un-conjugated
Alternate Names	CBF1; csl; IGKJRB1; RBPJK; IGKJRB; RBP-J kappa; Recombining binding protein suppressor of hairless; SUH; J kappa-recombination signal-binding protein; AOS3; RBP-J; RBP-JK; KBF2; CBF-1; RBPSUH; Renal carcinoma antigen NY-REN-30

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 57 kDa	

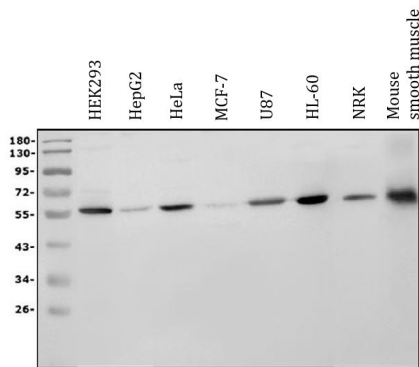
Properties

Form	Liquid
Purification	Immunogen affinity purified.
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Preservative	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

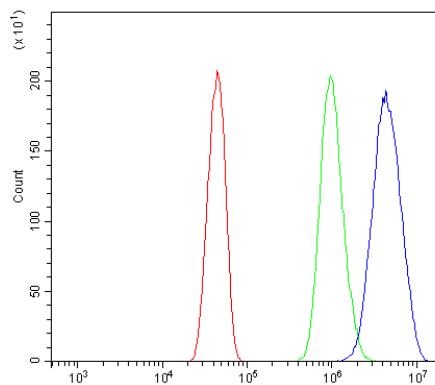
Gene Symbol	RBPJ
Gene Full Name	recombination signal binding protein for immunoglobulin kappa J region
Background	The protein encoded by this gene is a transcriptional regulator important in the Notch signaling pathway. The encoded protein acts as a repressor when not bound to Notch proteins and an activator 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. [provided by RefSeq, Oct 2013]
Function	Transcriptional regulator that plays a central role in Notch signaling, a signaling pathway involved in cell-cell communication that regulates a broad spectrum of cell-fate determinations. Acts as a transcriptional repressor when it is not associated with Notch proteins. When associated with some NICD product of Notch proteins (Notch intracellular domain), it acts as a transcriptional activator that activates transcription of Notch target genes. Probably represses or activates transcription via the recruitment of chromatin remodeling complexes containing histone deacetylase or histone acetylase proteins, respectively. Specifically binds to the immunoglobulin kappa-type J segment recombination signal sequence. Binds specifically to methylated DNA (PubMed:21991380). Binds to the oxygen responsive element of COX4I2 and activates its transcription under hypoxia conditions (4% oxygen) (PubMed:23303788). Negatively regulates the phagocyte oxidative burst in response to bacterial infection by repressing transcription of NADPH oxidase subunits (By similarity). [UniProt]
Calculated Mw	56 kDa
Cellular Localization	Nucleus. Cytoplasm. Note=Mainly nuclear, upon interaction with RITA/C12orf52, translocates to the cytoplasm, down-regulating the Notch signaling pathway. [UniProt]

Images



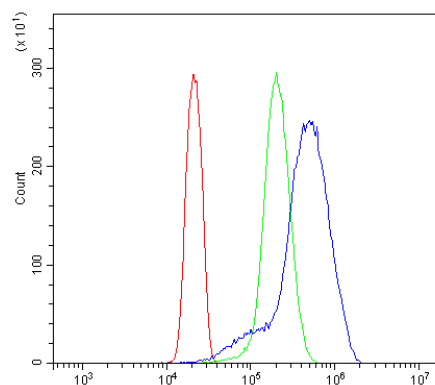
ARG43143 anti-RBPJK antibody [6G4] WB image

Western blot: 50 µg of sample under reducing conditions. HEK293, HepG2, HeLa, MCF-7, U87, HL-60, NRK and Mouse smooth muscle lysates stained with ARG43143 anti-RBPJK antibody [6G4] at 0.5 µg/ml dilution, overnight at 4°C.



ARG43143 anti-RBPJK antibody [6G4] FACS image

Flow Cytometry: HEPA1-6 cells were blocked with 10% normal goat serum and then stained with ARG43143 anti-RBPJK antibody [6G4] (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was mouse IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG43143 anti-RBPJK antibody [6G4] FACS image

Flow Cytometry: U937 cells were blocked with 10% normal goat serum and then stained with ARG43143 anti-RBPJK antibody [6G4] (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was mouse IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.