ARG59309
anti-FBXL11 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes FBXL11
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	FBXL11
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human FBXL11. (KRTFDLEEKLHTNKYNANFVTFMEGKDFNVEYIQR).
Conjugation	Un-conjugated
Alternate Names	CXXC-type zinc finger protein 8; CXXC8; EC 1.14.11.27; LILINA; FBL7; Lysine-specific demethylase 2A; [Histone-H3]-lysine-36 demethylase 1A; FBXL11; JmjC domain-containing histone demethylation protein 1A; JHDM1A; F-box/LRR-repeat protein 11; F-box protein Lilina; F-box protein FBL7; F-box and leucine-rich repeat protein 11; FBL11

Application Instructions

Application table

Application	Dilution
WB	0.1 - 0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

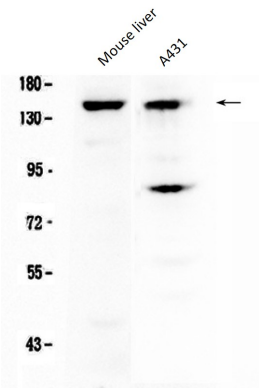
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. 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.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	KDM2A
Gene Full Name	lysine (K)-specific demethylase 2A
Background	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class and, in addition to an F-box, contains at least six highly degenerated leucine-rich repeats. This family member plays a role in epigenetic silencing. It nucleates at CpG islands and specifically demethylates both mono- and di-methylated lysine-36 of histone H3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]
Function	Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis. [UniProt]
Calculated Mw	133 kDa
Cellular Localization	Nucleus, nucleoplasm. Note=Punctate expression throughout the nucleoplasm and enriched in the perinucleolar region. Specifically nucleates at CpG islands where it's presence results in chromatin depleted in H3K36me2. [UniProt]

Images



ARG59309 anti-FBXL11 antibody WB image

Western blot: 50 µg of samples under reducing conditions. Mouse liver and A431 cell lysate stained with ARG59309 anti-FBXL11 antibody at 0.5 µg/ml, overnight at 4°C.