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KD-Validated Anti-F-Box Protein 11 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI1116

Product Information

Application	WB, FC
Primary Accession	Q86XK2
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	25GB520
Calculated MW	103585
Gene Name	FBXO11
Aliases	FBXO11; F-Box Protein 11; FBX11; F-Box Only Protein 11; UBR6; Ubiquitin Protein Ligase E3 Component N-Recognin 6; Protein Arginine N-Methyltransferase 9; Vitiligo-Associated Protein 1; PRMT9; VIT1; Vitiligo-Associated Protein VIT-1; UG063H01; IDDFBA; VIT-1
Immunogen	Recombinant protein of human FBXO11

Additional Information

Gene ID	80204
Other Names	F-box only protein 11, Protein arginine N-methyltransferase 9, Vitiligo-associated protein 1, VIT-1, FBXO11 {ECO:0000303|PubMed:25827072, ECO:0000312|HGNC:HGNC:13590}

Protein Information

Name	FBXO11 {ECO:0000303|PubMed:25827072, ECO:0000312|HGNC:HGNC:13590}
Function	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as DTL/CDT2, BCL6, SNAI1 and PRDM1/BLIMP1 (PubMed:17098746, PubMed:22113614, PubMed:23478441, PubMed:23478445, PubMed:23892434, PubMed:24613396, PubMed:24968003, PubMed:25827072, PubMed:29059170). The SCF(FBXO11) complex mediates ubiquitination and degradation of BCL6, thereby playing a role in the germinal center B- cells terminal differentiation toward memory B-cells and plasma cells (PubMed:22113614). The SCF(FBXO11) complex also mediates ubiquitination and degradation of DTL, an important step for the regulation of TGF- beta signaling, cell migration and the timing of the cell-cycle progression and exit (PubMed:23478441, PubMed:23478445). The SCF(FBXO11) complex also

	catalyzes ubiquitination and degradation of GSK3B-phosphorylated SNAI1 (PubMed:25827072, PubMed:29059170). Binds to and neddylates phosphorylated p53/TP53, inhibiting its transcriptional activity (PubMed:17098746). Plays a role in the regulatiom of erythropoiesis but not myelopoiesis or megakaryopoiesis (PubMed:33156908). Mechanistically, activates erythroid genes by mediating the degradation of BAHD1, a heterochromatin-associated protein that recruits corepressors to H3K27me3 marks (PubMed:33156908). Participates in macrophage cell death and inflammation in response to bacterial toxins by regulating the expression of complement 5a receptor 1/C5AR1 and IL-1beta (PubMed:33156908). Acts as a critical regulator to determine the level of MHC-II by mediating the recognition of degron at the P/S/T domain of CIITA leading to its ubiquitination and subsequent degradation via the proteasome (PubMed:37279268). Participates in the antiviral repsonse by initiating the activation of TBK1-IRF3-IFN-I axis (PubMed:36897010). Mediates the 'Lys-63'-linked ubiquitination of TRAF3 to strengthen the interaction between TRAF3 and TBK1 (PubMed:36897010).
Cellular Location	Nucleus. Chromosome
Tissue Location	Isoform 5 is expressed in keratinocytes, fibroblasts and melanocytes.

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