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Goat Anti-FBXO11 (aa754-765) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4327a

Product Information

Application	WB, E
Primary Accession	Q86XK2
Other Accession	NP_079409.3, NP_001177203.1, XP_005264629.1, XP_005264630.1, XP_005264631.1, XP_005264632.1
Reactivity	Human
Predicted	Human, Mouse, Rat, Pig
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Calculated MW	103585

Additional Information

Gene ID	80204
Other Names	F-box only protein 11, Protein arginine N-methyltransferase 9, Vitiligo-associated protein 1, VIT-1, FBXO11, FBX11, PRMT9, VIT1
Dilution	WB~~1:1000 E~~N/A
Format	0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Immunogen	Peptide with sequence C-KISSYTSYPMHD, from the internal region of the protein sequence according to NP_079409.3; NP_001177203.1; XP_005264629.1; XP_005264630.1; XP_005264631.1; XP_005264632.1.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat Anti-FBXO11 (aa754-765) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

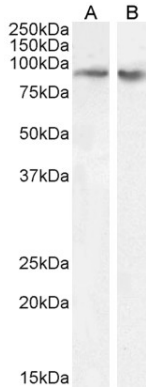
Name	FBXO11 {ECO:0000303|PubMed:25827072, ECO:0000312|HGNC:HGNC:13590}
Function	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as DTL/CDT2,

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.

Images



AF4327a (0.1 µg/ml) staining of nuclear HeLa (A) and A431 (B) cell lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.