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FBXO11 Antibody (clone 4C12)

Mouse Monoclonal Antibody
Catalog # ALS14105

Specification

FBXO11 Antibody (clone 4C12) - Product Information

Application	**IF, IHC**
Primary Accession	Q86XK2
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**104kDa KDa**

FBXO11 Antibody (clone 4C12) - 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

Target/Specificity
Human FBXO11

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
FBXO11 Antibody (clone 4C12) is for research use only and not for use in diagnostic or therapeutic procedures.

FBXO11 Antibody (clone 4C12) - Protein Information

Name FBXO11

Synonyms FBX11, PRMT9, VIT1

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 and PRDM1/BLIMP1. 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. 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. Binds to and neddylates phosphorylated p53/TP53, inhibiting its transcriptional activity. Plays a role in the regulatiom of erythropoiesis but not myelopoiesis or megakaryopoiesis. 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. Mediates the 'Lys-63'-linked ubiquitination of TRAF3 to strengthen the interaction between TRAF3 and TBK1 (PubMed:36897010).

Cellular Location
Nucleus. Chromosome.

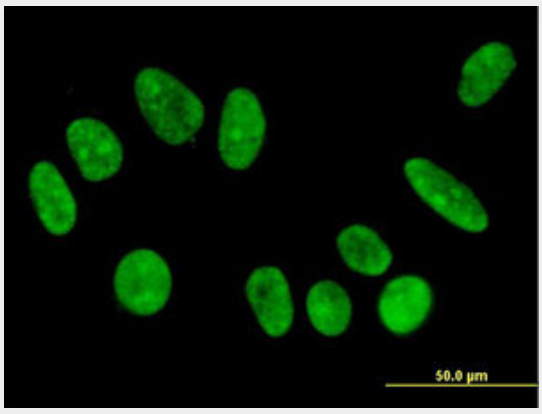
Tissue Location
Isoform 5 is expressed in keratinocytes, fibroblasts and melanocytes.

FBXO11 Antibody (clone 4C12) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FBXO11 Antibody (clone 4C12) - Images



Immunofluorescence of monoclonal antibody to FBXO11 on HeLa cell. [antibody concentration 10 ug/ml].

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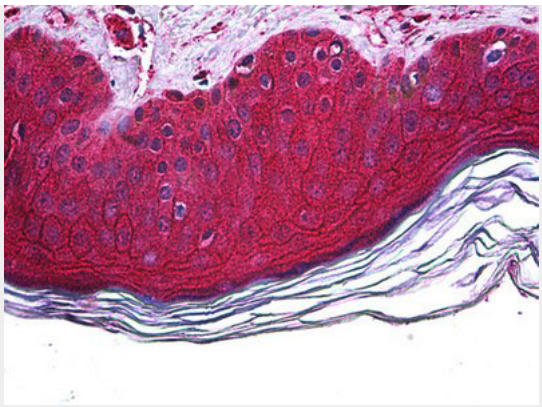

Anti-FBXO11 antibody IHC of human skin.

FBXO11 Antibody (clone 4C12) - Background

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 and PRDM1/BLIMP1. 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. 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. Binds to and neddylates phosphorylated p53/TP53, inhibiting its transcriptional activity. SCF(FBXO11) does not seem to direct ubiquitination of p53/TP53.

FBXO11 Antibody (clone 4C12) - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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